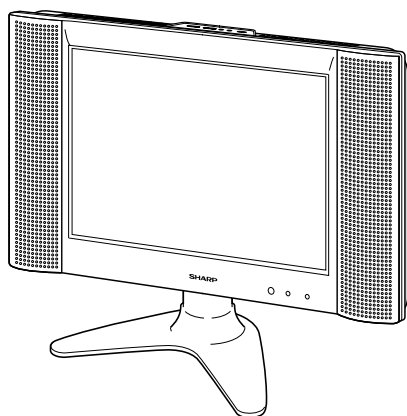


SHARP**SERVICE MANUAL****LCD COLOR TELEVISION****LC-20B2H**
LC-20B2M**MODELS**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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IMPORTANT SERVICE SAFETY PRECAUTION

- Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSE. F3701 (1.6A, 250V), F3702 (1.6A, 250V) F3703 (2.0A, 250V), F3704 (2.0A, 250V) FUSE.

BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

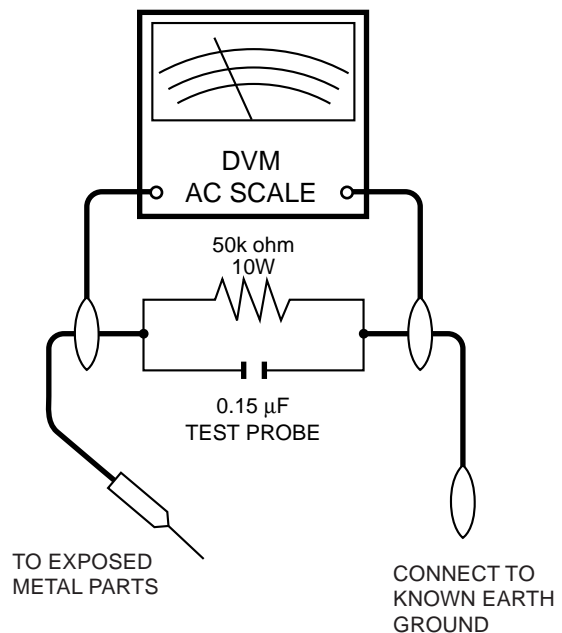
Before returning the receiver to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators and etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
 - Plug the AC cord directly into a 110~240 volt AC outlet, and connect the DC power cable into the receiver's DC jack. (Do not use an isolation transformer for this test).
 - Using two clip leads, connect a 50k ohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.

- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon and etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 0.75V peak (this corresponds to 0.5 milliamp. peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD television have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage and etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠"

and shaded areas in the **Replacement Parts Lists** and **Schematic Diagrams**.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

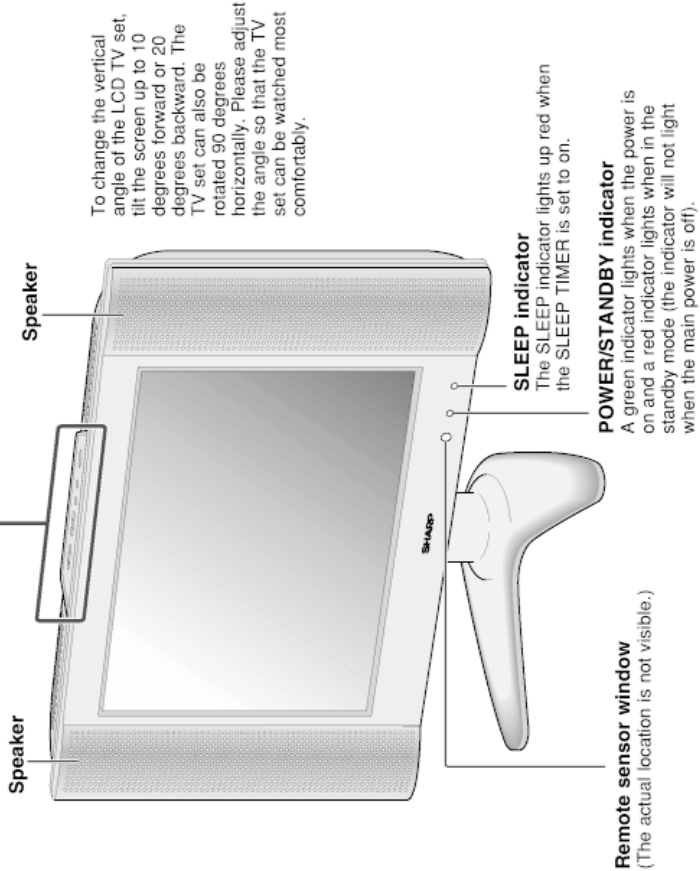
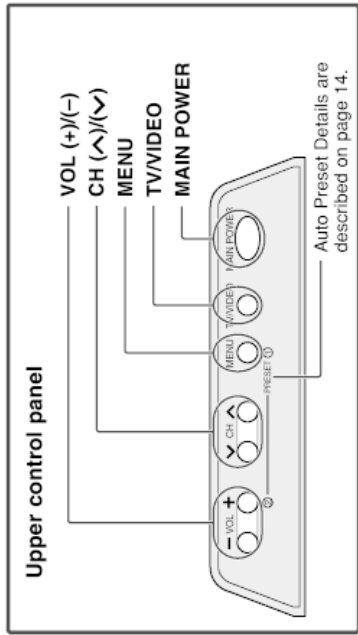
Specifications

ITEMS	MODELS	LC-20B2H/M
LCD panel		19.7" TFT LCD
Number of dots		921,600 dots VGA
Video colour systems		World multi system
TV FUNCTION	TV Standard (CCIR)	I/DK/M/BG
	TV Turning System	Auto preset turning
	STEREO/BILINGUAL	NICAM-BG, I, DK/IGR-BG
	Universal R/C for TV only	Yes
	AUTO PRESET	Yes
	CATV	~Hyper Band
4-LINE DIGITAL COMB FILTER		Yes
Brightness		430 cd/m ²
Lamp life		60,000 Hours
Viewing angles		H: 160° V: 160°
Audio output		2.5Wx2
Speakers		5 cm ø 2 pcs.
Terminals	AV1	Composite Video, S-Video, Audio
	AV 2 IN/OUT	Composite Video/Audio
	Component	Y, P _B , P _R /Audio
Headphone Jack		3.5 mm ø jack (Rear)
OSD LANGUAGE		English/Chinese/Arabic
Power requirment		DC 13 V, AC110-240 V, 50/60Hz
Weight		8.2 kg w/o accessories
Accessories		R/C, Batteries, Cable clamps, AC adapter, AC cord, Operation manual, Antenna cable

■ Specifications are subject to change without prior notice.

LOCATION OF USERS CONTROL

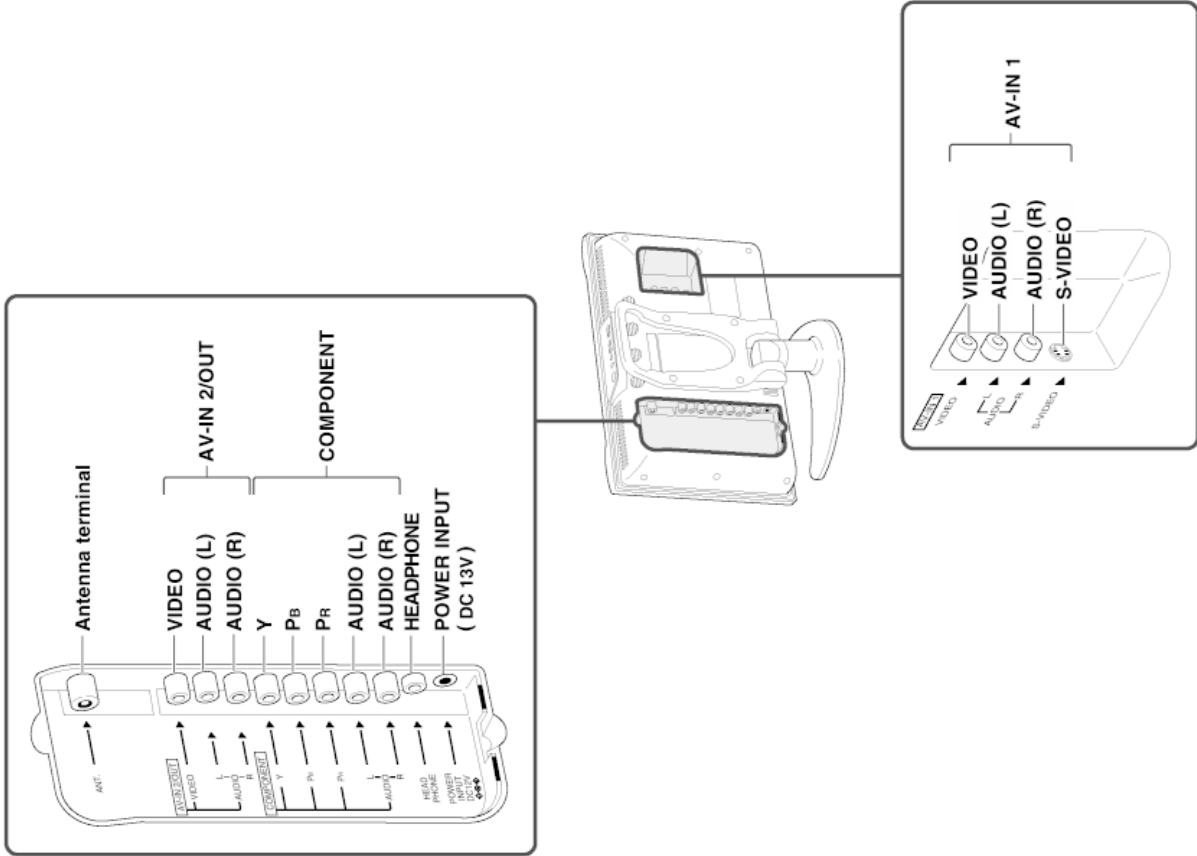
Main unit (front view)



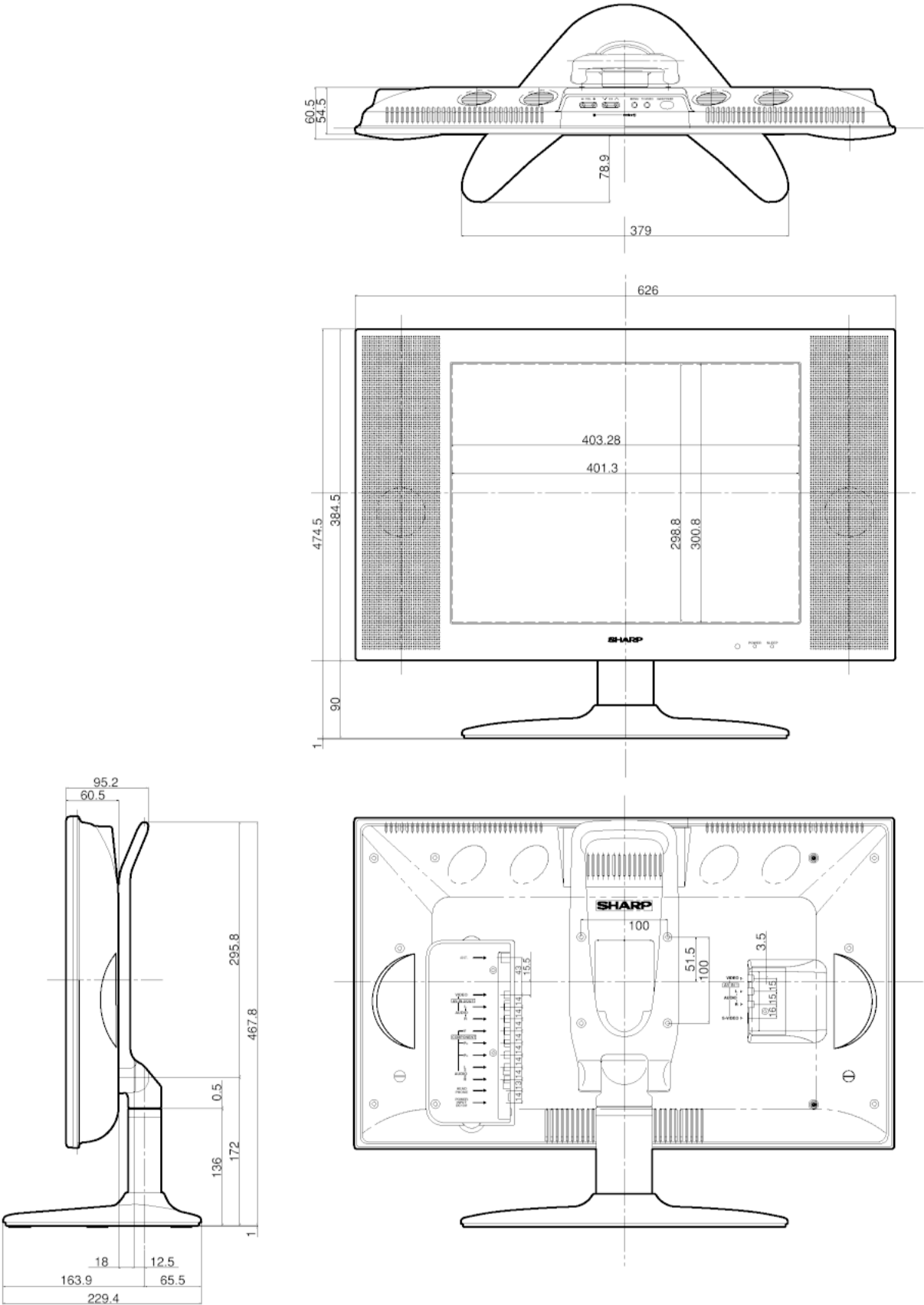
Note:

- TV/VIDEO, CH (^)/(\), and VOL (+)/(-) on the main unit have the same functions as the same buttons on the remote control. Fundamentally, this operation manual provides a description based on operation with the remote control.

Main unit (rear view)



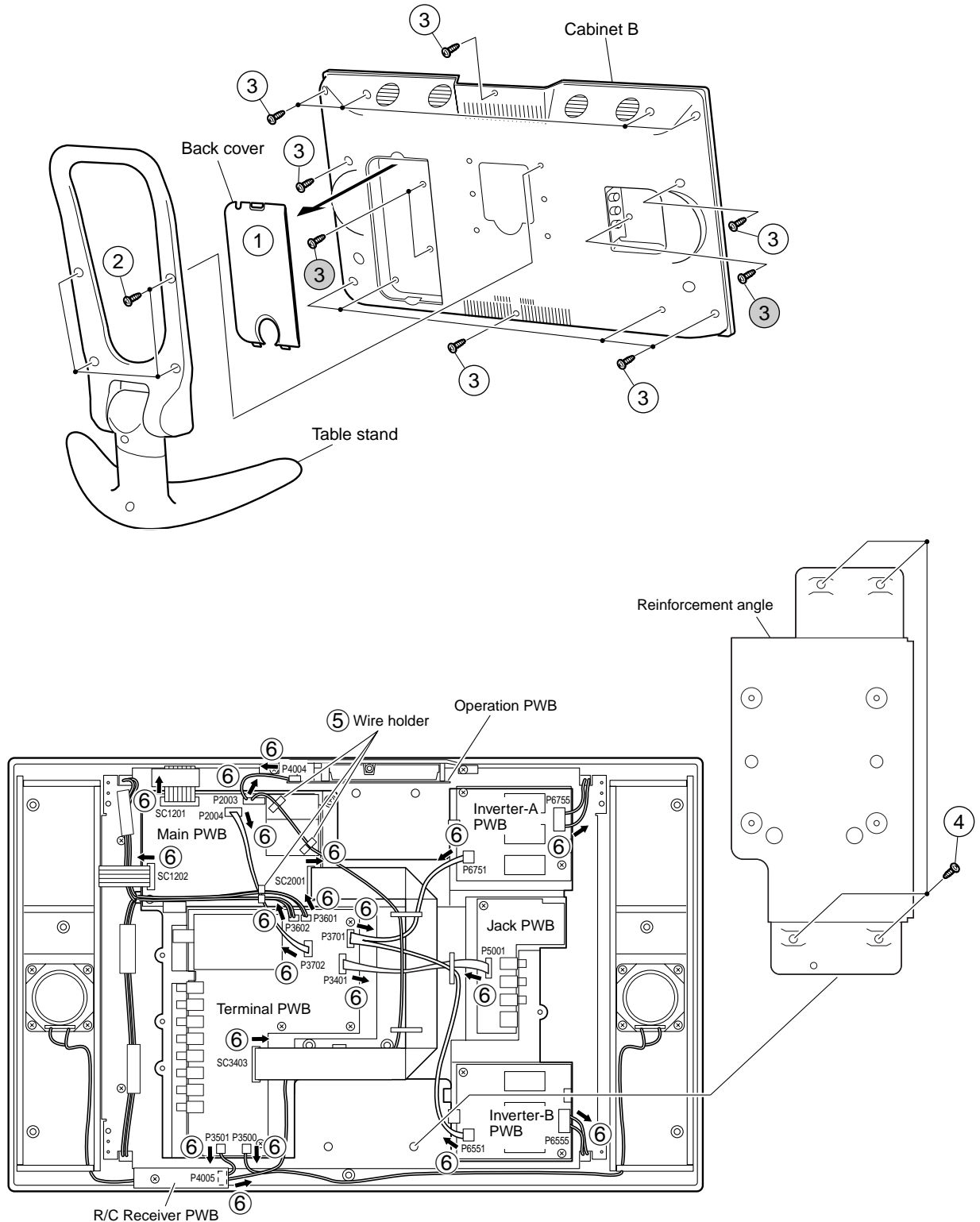
Dimensions



(Unit: mm)

REMOVING OF MAJOR PARTS

1. Remove the back cover.
2. Remove the table stand fixing screws (4 pcs.).
3. Remove the cabinet B fixing screws (15 pcs.) and detach the cabinet.
(③ : XBBSF30P06000, ③ : XEBSF40P16000)
4. Remove the reinforcement angle fixing screws (4 pcs.).
5. Release the wire holders at 3 locations.
6. Detach the connector from each PWB.



ADJUSTING PROCEDURE OF EACH SECTION

The best adjustment is made before shipping. If any position deviation is found or after part replace is performed, adjust as follows.

1. Preparation for Adjustments

(1) Use the exclusive-use AC adapter or stable DC power supply.

AC adapter: UADP-0219CEZZ

DC power supply: 13 ± 0.5V 3.5A

[1] Adjustment Procedure

1-1. Adjusting the checker

Turning on the power (initialization) → Setting the model and size in inches → Transferring the model-specified data to the E²PROM (I²C) → Calling the adjustment process mode → Starting the adjustment (+B)

1-2. Adjusting the finish process

Reassembling the set → Turning on the power → Calling the adjustment process mode (using the remote controller) → Adjusting the counter bias, TV contrast and white balance

[2] Calling the MAIN adjustment process mode

There are the following three ways to choose from.

- Turn on the power and press the "ADJUST PROCESS" key on the remote controller.
- Set KEY 4 and KEY 5, pins (81) and (82), respectively, on the microprocessor to the "L" level. Now turn on the power.
- For servicing, hold down the INPUT SELECT and MENU keys at once, and turn on the POWER switch. (Make sure the process mode "K" appears at the top left of the screen.) Then press the CH DOWN and VOL DOWN keys at once. (Make sure the adjustment process mode screen shows up.) To quit this mode, turn off the power. (Or turn off the POWER switch or use the remote controller's OFF key.)

[3] Using the keys for the adjustment process

Selecting a reception channel

- Using the CH UP/DOWN key, turn up and down reception (broadcasting) channels.
Just click on the key, and channels are selected on by one.
Hold down the key, and the next receivable channel is searched up and down.
- Adjustment items
Adjust each of the items by using the MENU SELECT, CURSOR UP/DOWN, CH UP/DOWN and VOL UP/DOWN keys (on the set or on the remote controller).
- Select an adjustment item using the CURSOR UP/DOWN key.
- An adjustment item is toggled on and off by activating the MENU SELECT key (next item).
Let's suppose that the item at the bottom of a page is now selected. When the MENU SELECT key is activated here, the item at the top of the next page will be selected.

[4] Initialization

4-1. Set pins (81) and (82) of IC2001 (microprocessor) to GND. Turn on the power.

4-2. Select a model number (C2H, B2H).

4-3. Select a size in inches (10, 13, 15, 20).

[5] Adjustment

5-1. +B adjustment (R3760 Variable resistor)

1) Receive the color bar signal.

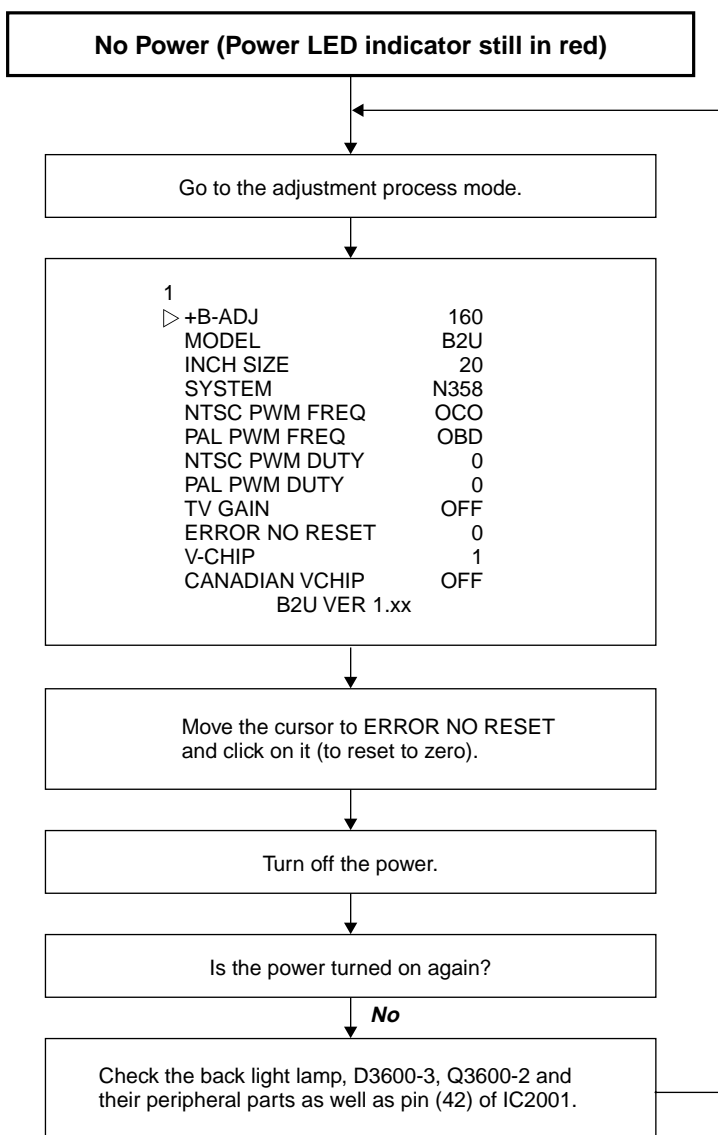
2) Adjust the voltage at SC3403 (pin (38)) to 5.00± 0.02 V.

Note: The 5.0 V level is used as reference for all the line voltages. Make this adjustment as precisely as possible.

5-2. Counter bias adjustment: COM BIAS on page 2

Adjust the "COM BIAS" setting until the contrast gets optimum (the black portion blackest). For Model LC-13B2H,

TROUBLE SHOOTING TABLE



Note:

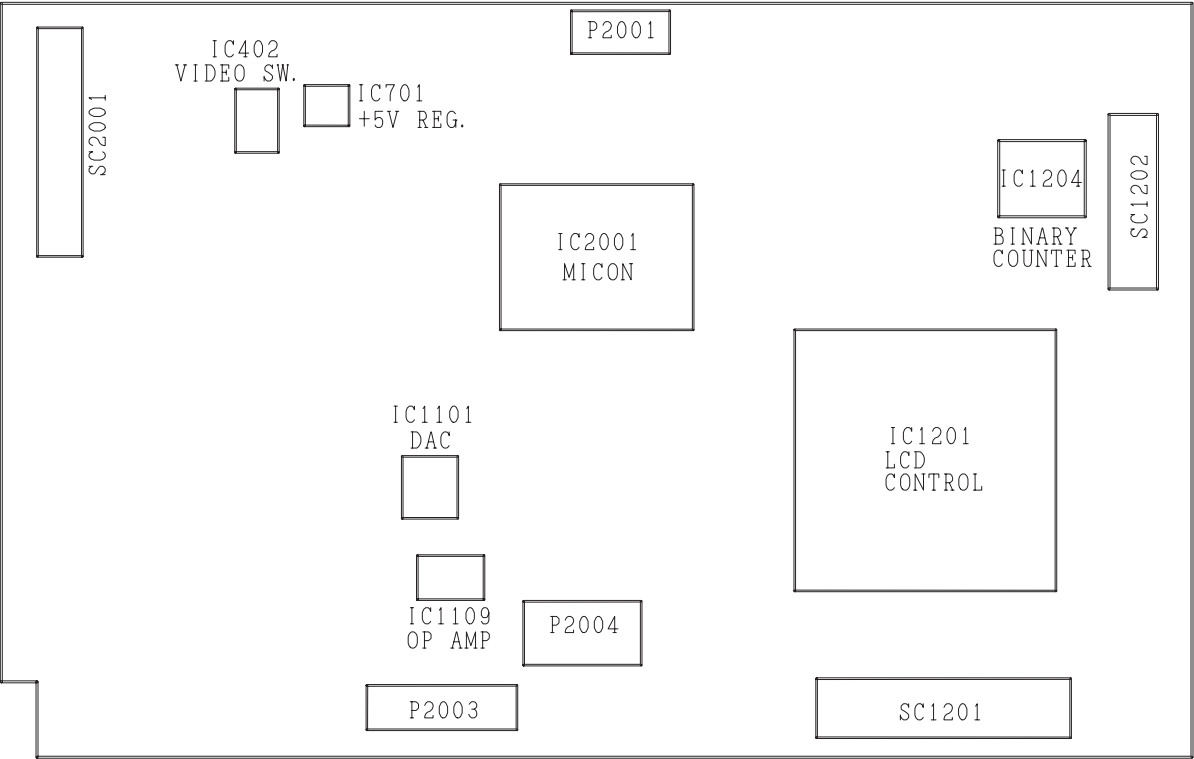
This model is equipped with the lamp error detection function that detects the current flowing into the fluorescent lamp and protects the backlight lamp drive circuit.

If a lamp error is detected, the microprocessor interrupts the unit and the ERROR NO RESET setting will go up.

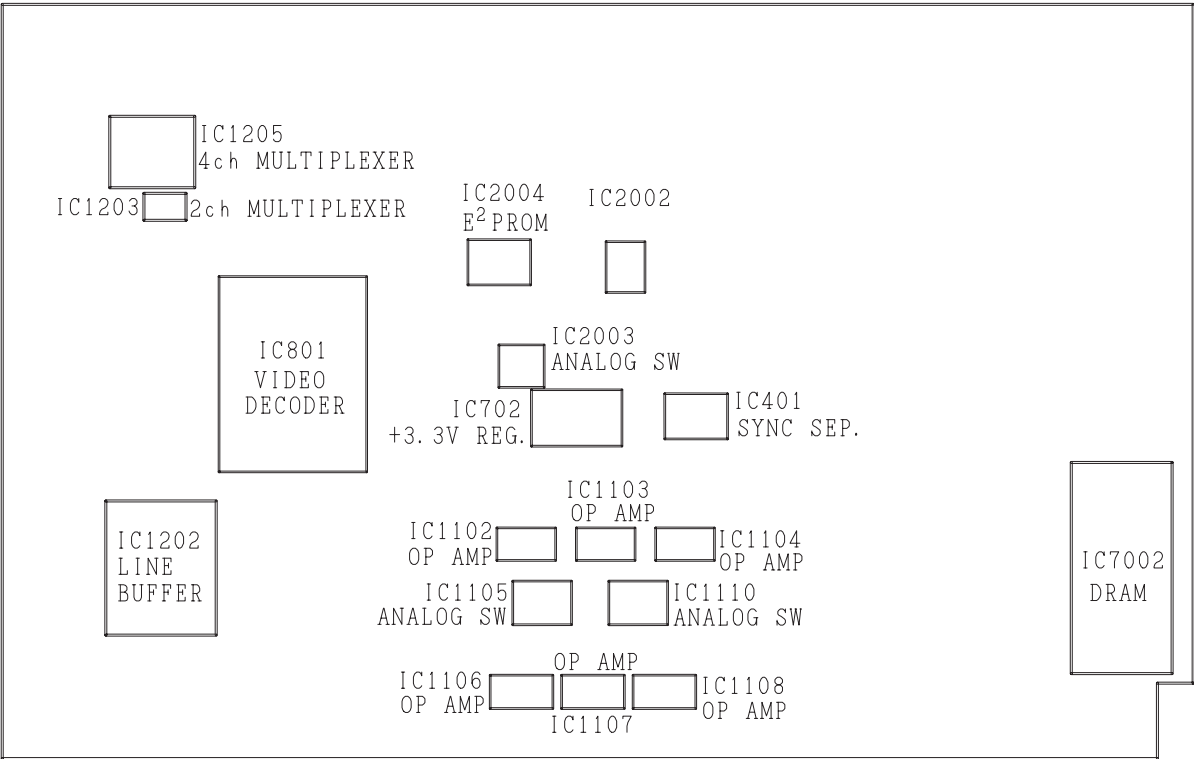
When the ERROR NO RESET setting has reached "5", the microprocessor turns and keeps off the unit's power. To resume the power, take the above procedure to clear the ERROR NO RESET setting.

CHASSIS LAYOUT

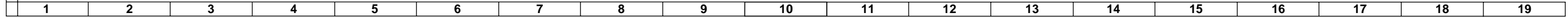
MAIN Unit (Side A)



MAIN Unit (Side B)



A
B
C
D
E
F
G
H



DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 120V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 120V. Signals are fed by a color bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted.
(K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted.
(J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/10W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
 ©: Solid Ⓢ: Cement
 Ⓢ: Oxide Film Ⓣ: Special
 Ⓝ: Metal Coating

CAPACITOR

1. All capacitors are μF, unless otherwise noted.
(P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
 (ML): Mylar (TA): Tantalum
 (PF): Polypro Film (ST): Styrol


CAUTION:

This circuit diagram is original one, therefore there may be a slight difference from yours.


SAFETY NOTES:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" () ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

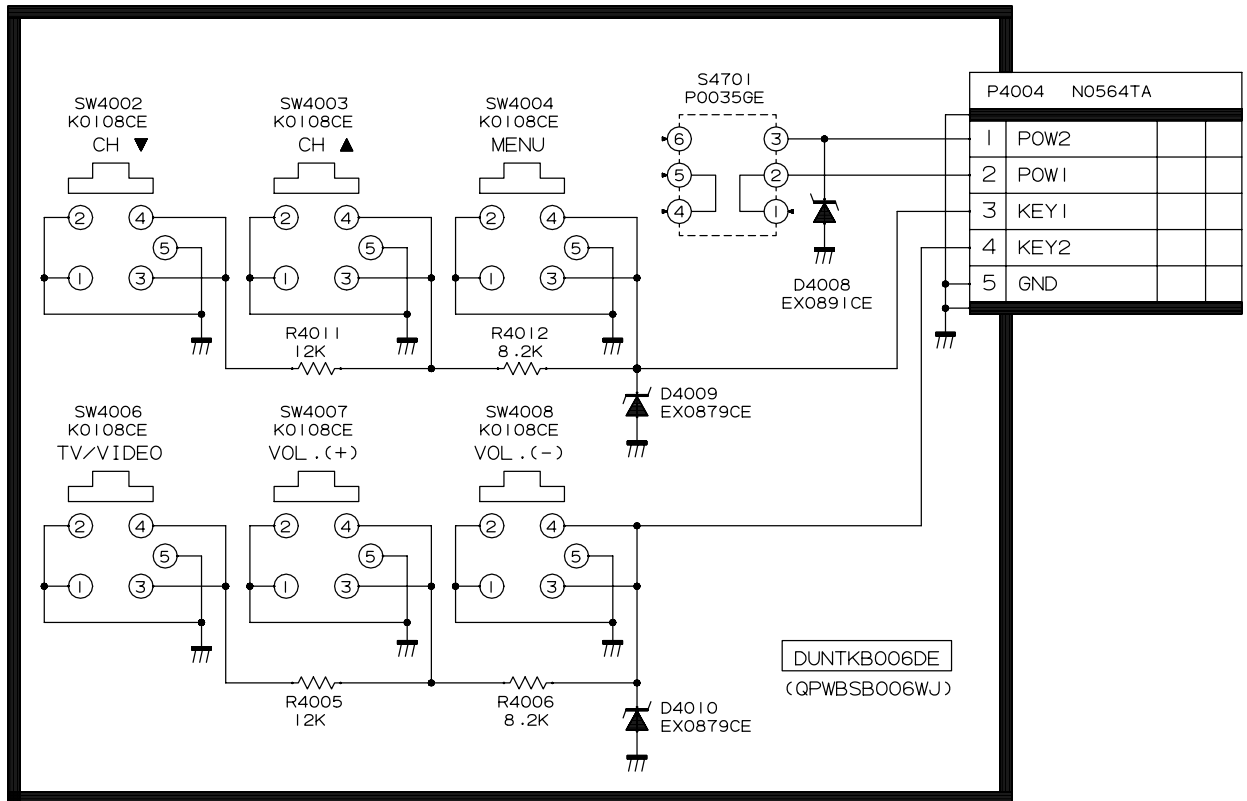
AVIS DE SECURITE IMPORTANT:

LES PIECES MARQUEES "⚠" () SONT IMPORTANTES POUR MAINTENIR LA SECURITE DE L'APPAREIL.
NE REMPLACER CES PIECES QUE PAR DES PIECES DONT LE NUMERO EST SPECIFIE POUR MAINTENIR LA SECURITE ET PROTEGER LE BON FONCTIONNEMENT DE L'APPAREIL.

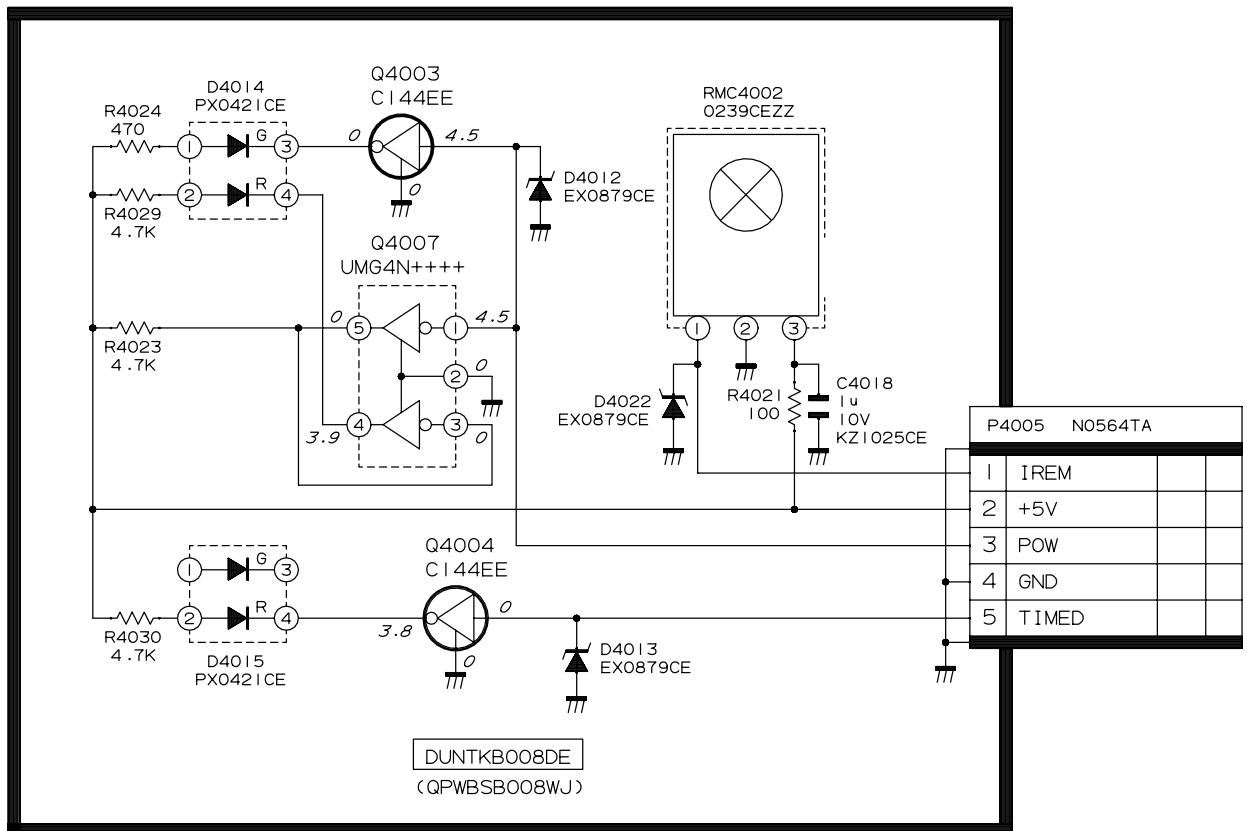
SCHEMATIC DIAGRAM

■ OPERATION and R/C RECEIVER Unit

OPERATION Unit



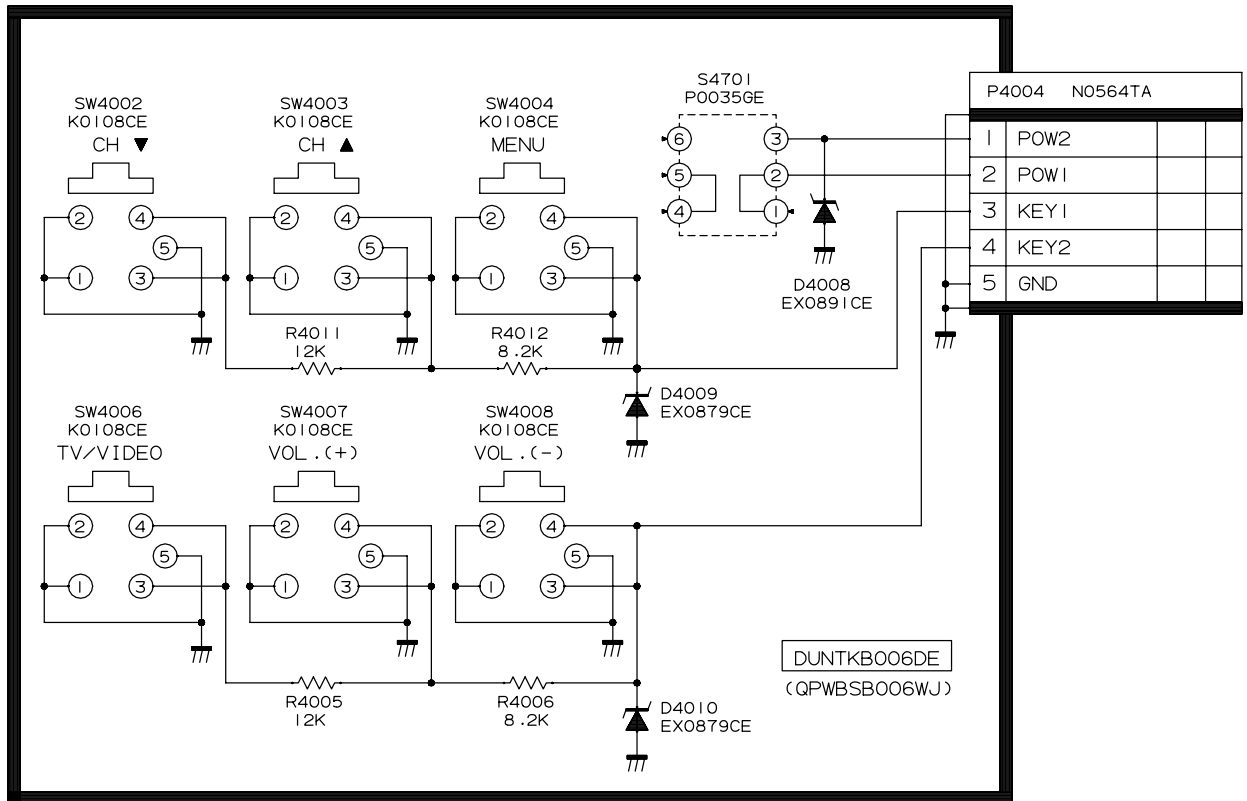
R/C RECEIVER Unit



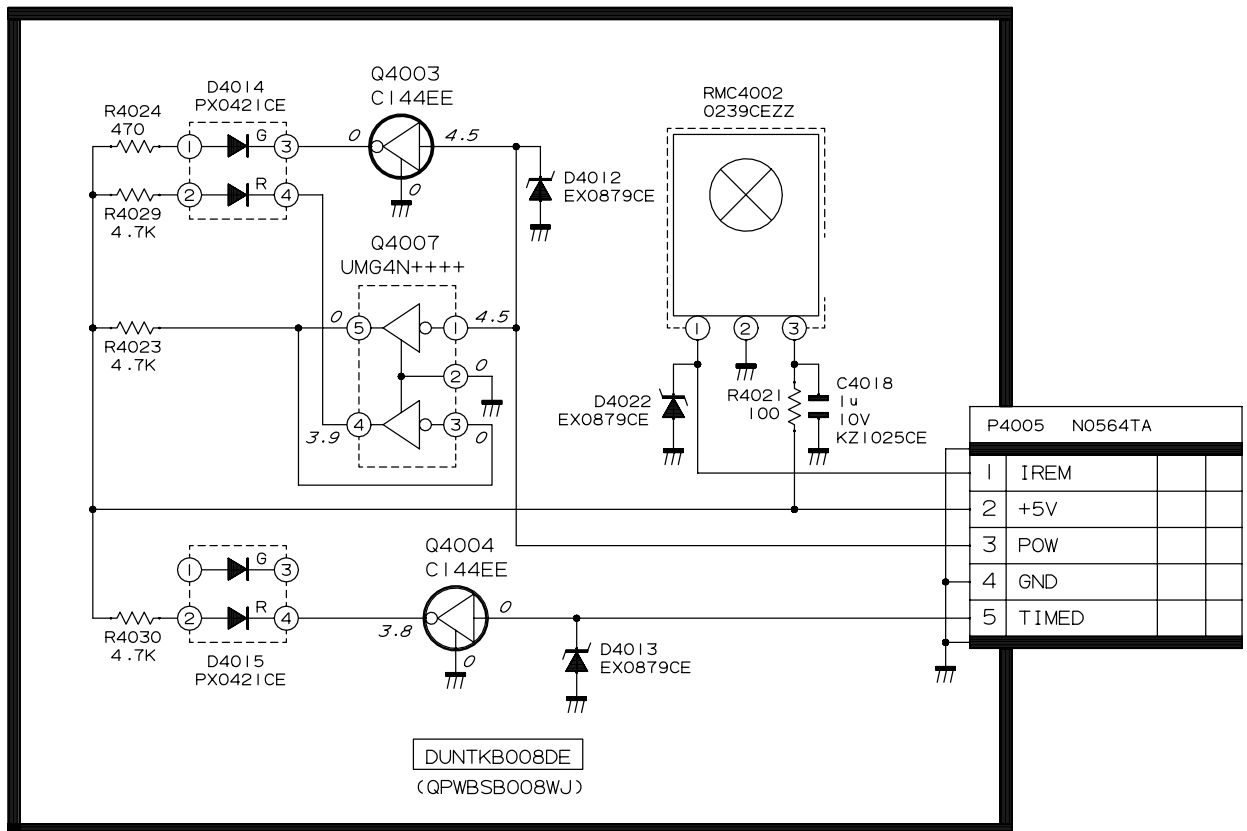
SCHEMATIC DIAGRAM

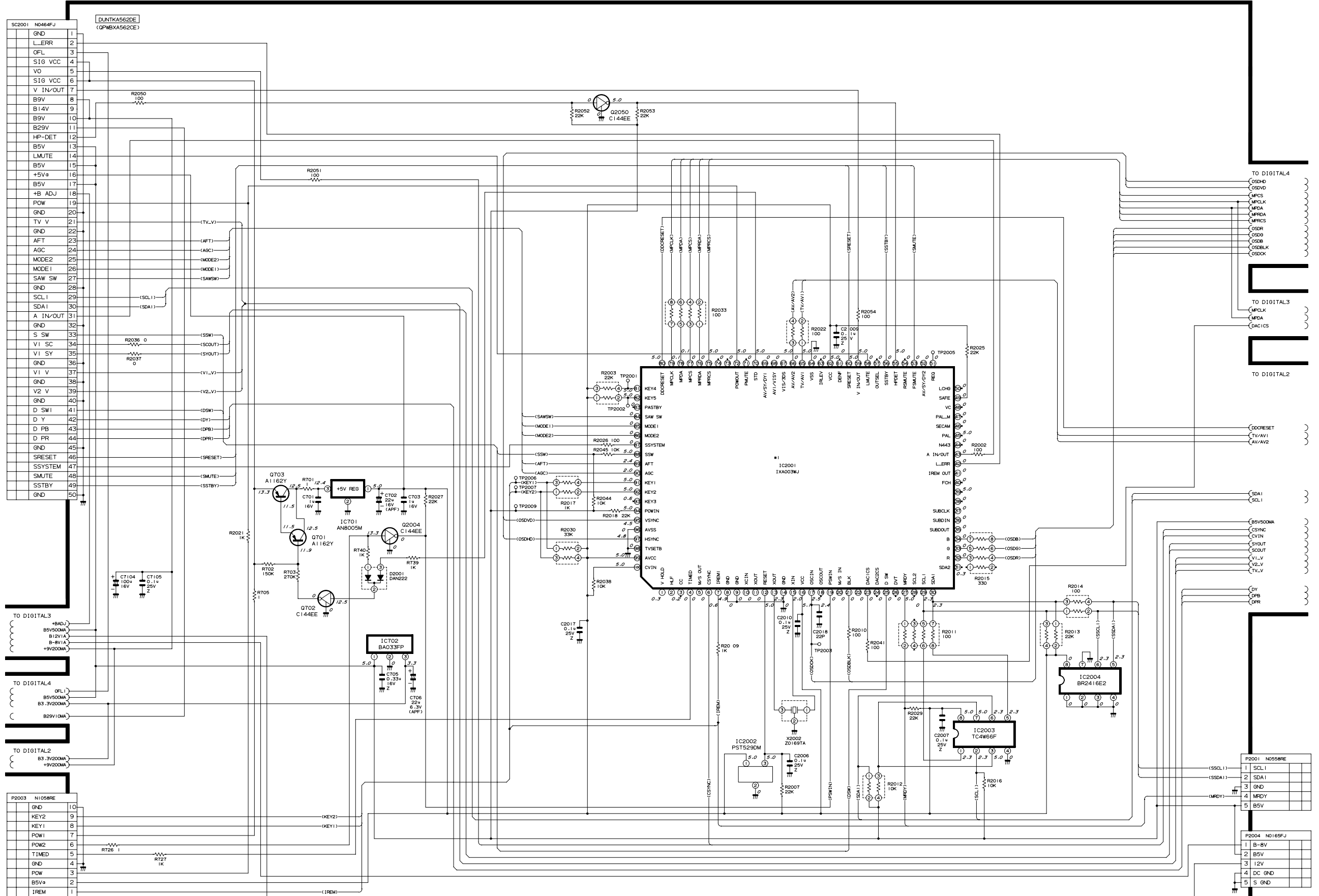
■ OPERATION and R/C RECEIVER Unit

OPERATION Unit

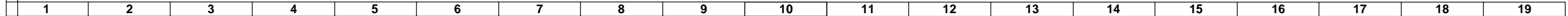


R/C RECEIVER Unit

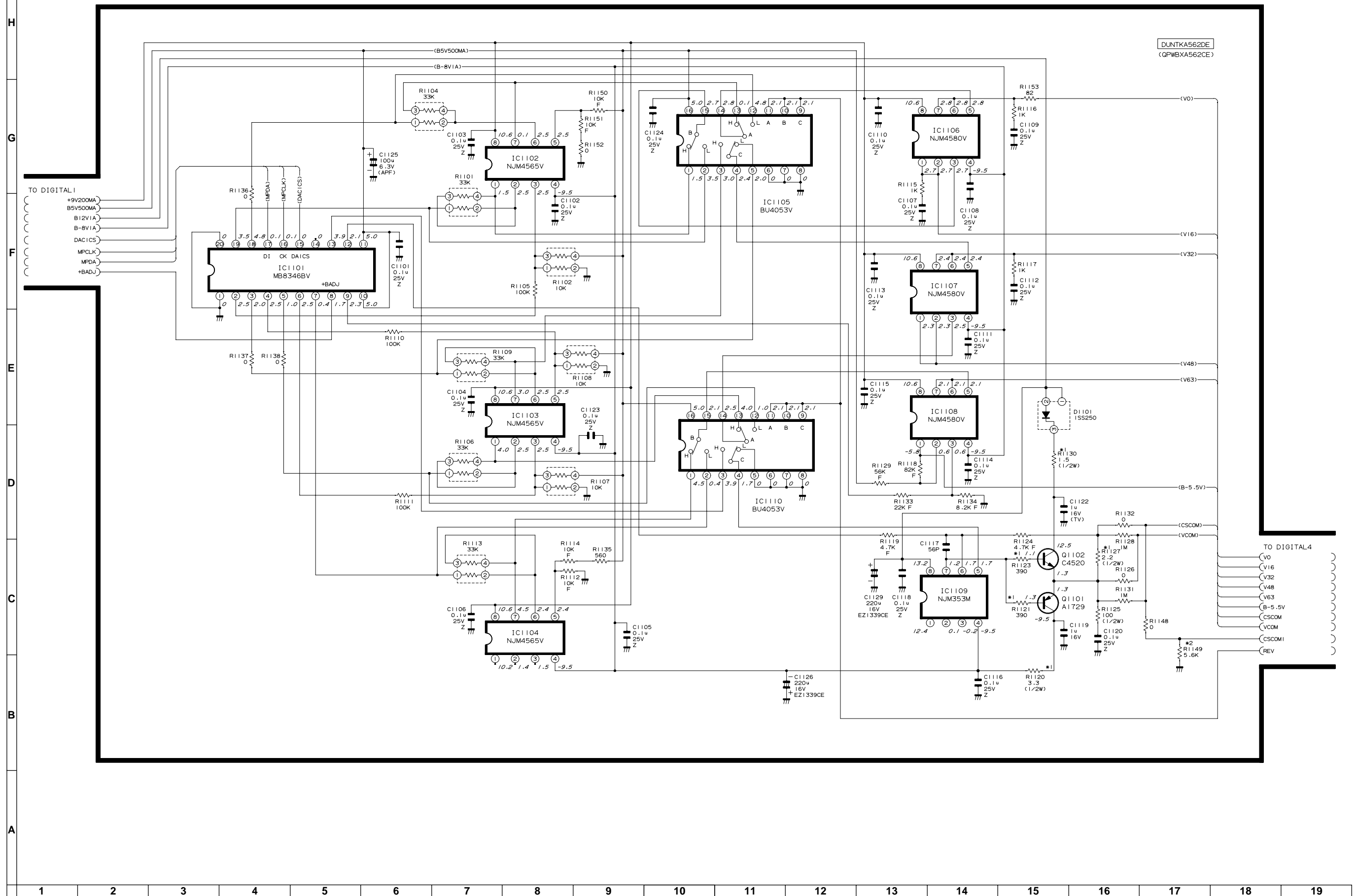




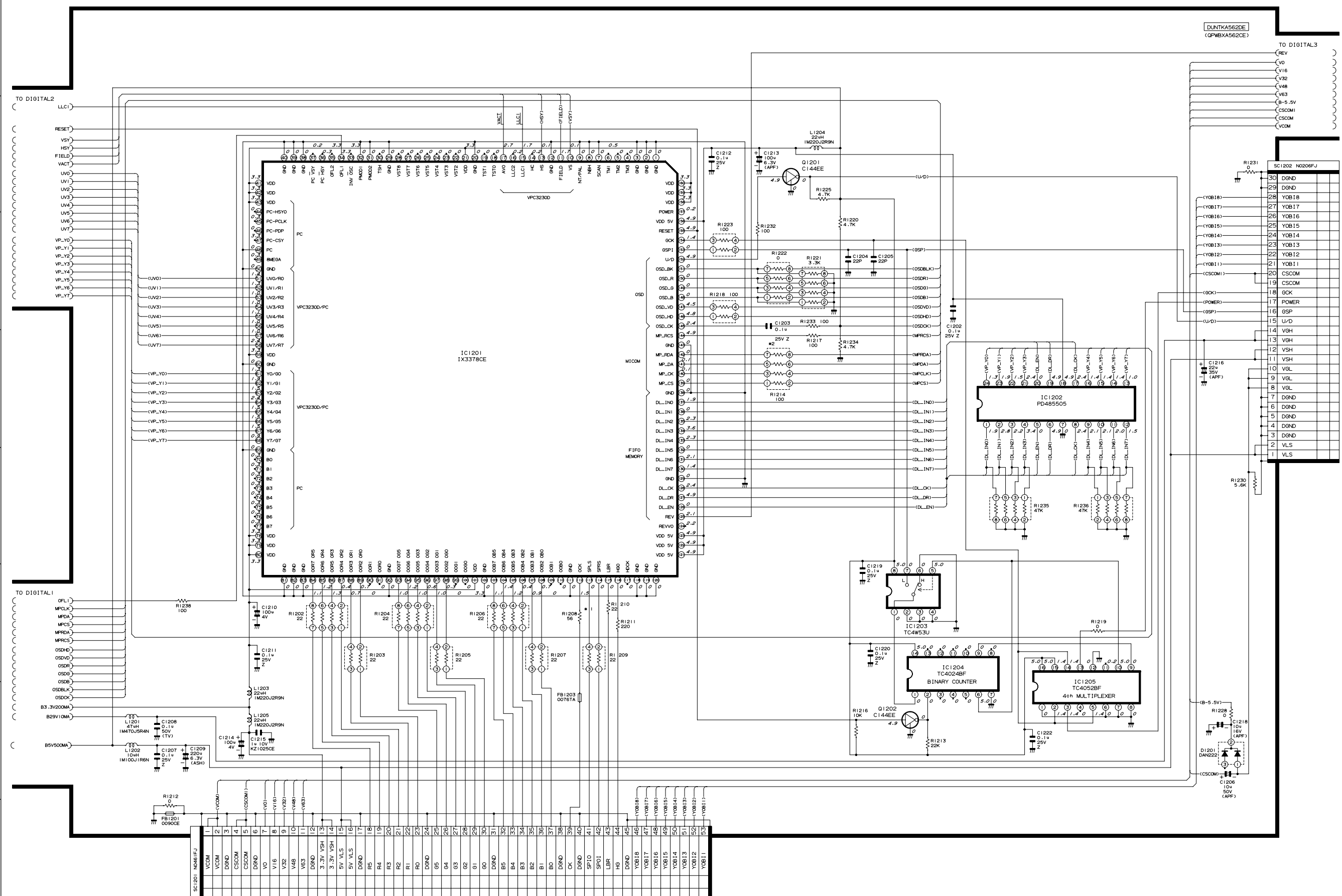
A	B	C	D	E	F	G	H
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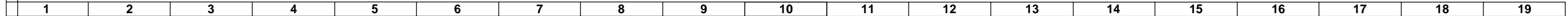
MAIN Unit-3/4



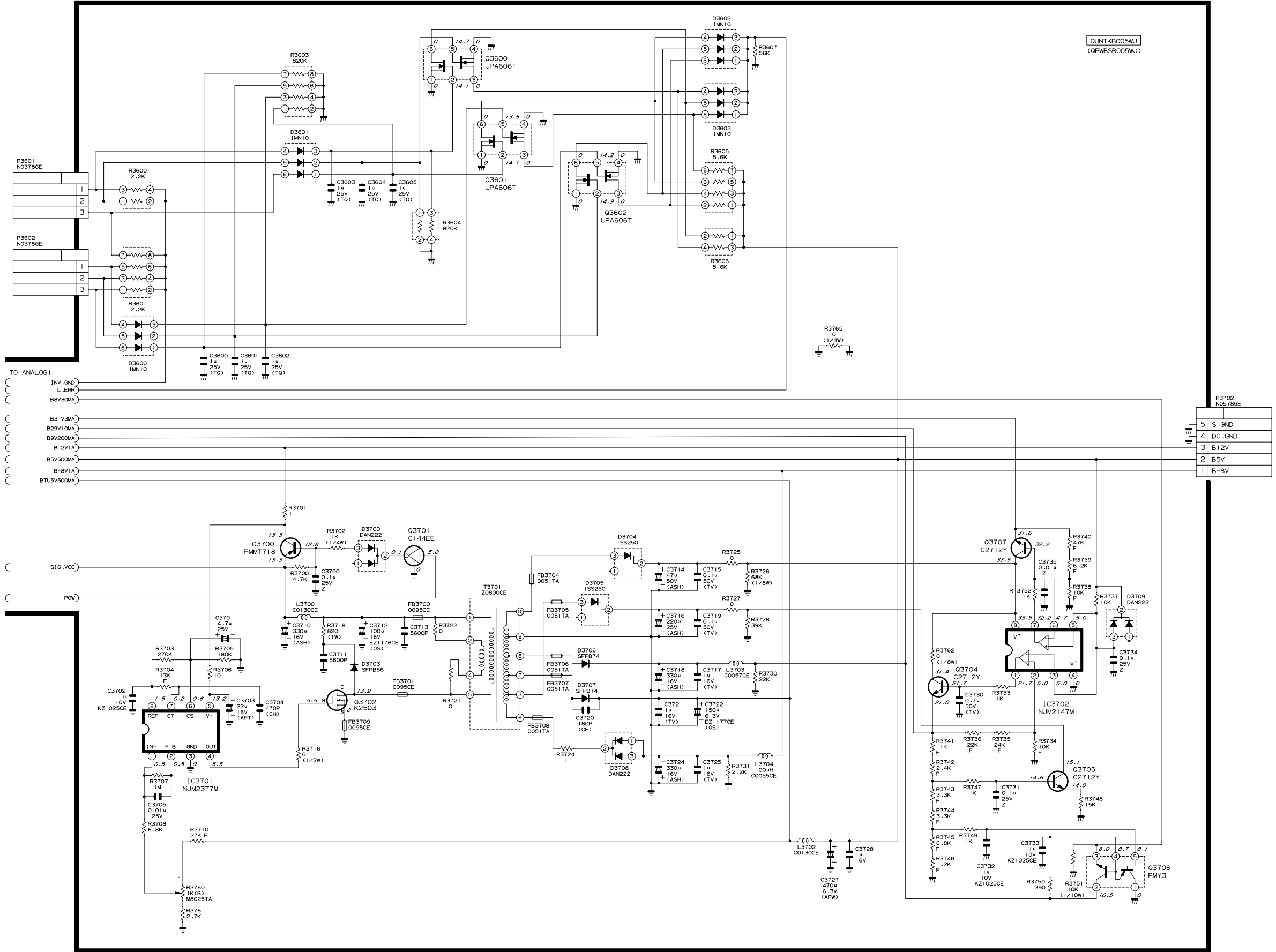
H
G
F
E
D
C
B
A



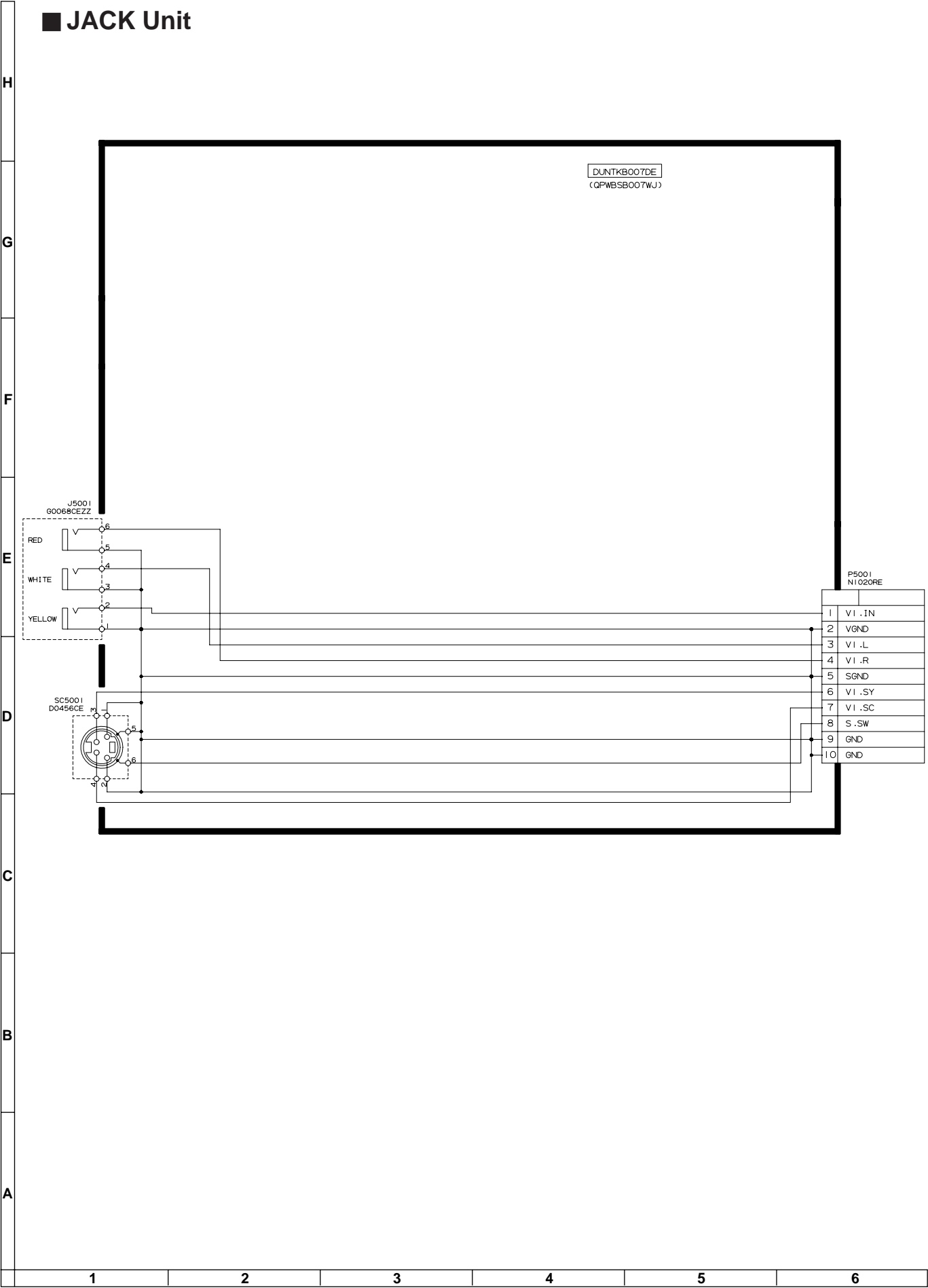
	A
	B
	C
	D
	E
	F
	G
H	



■ TERMINAL Unit-2/2

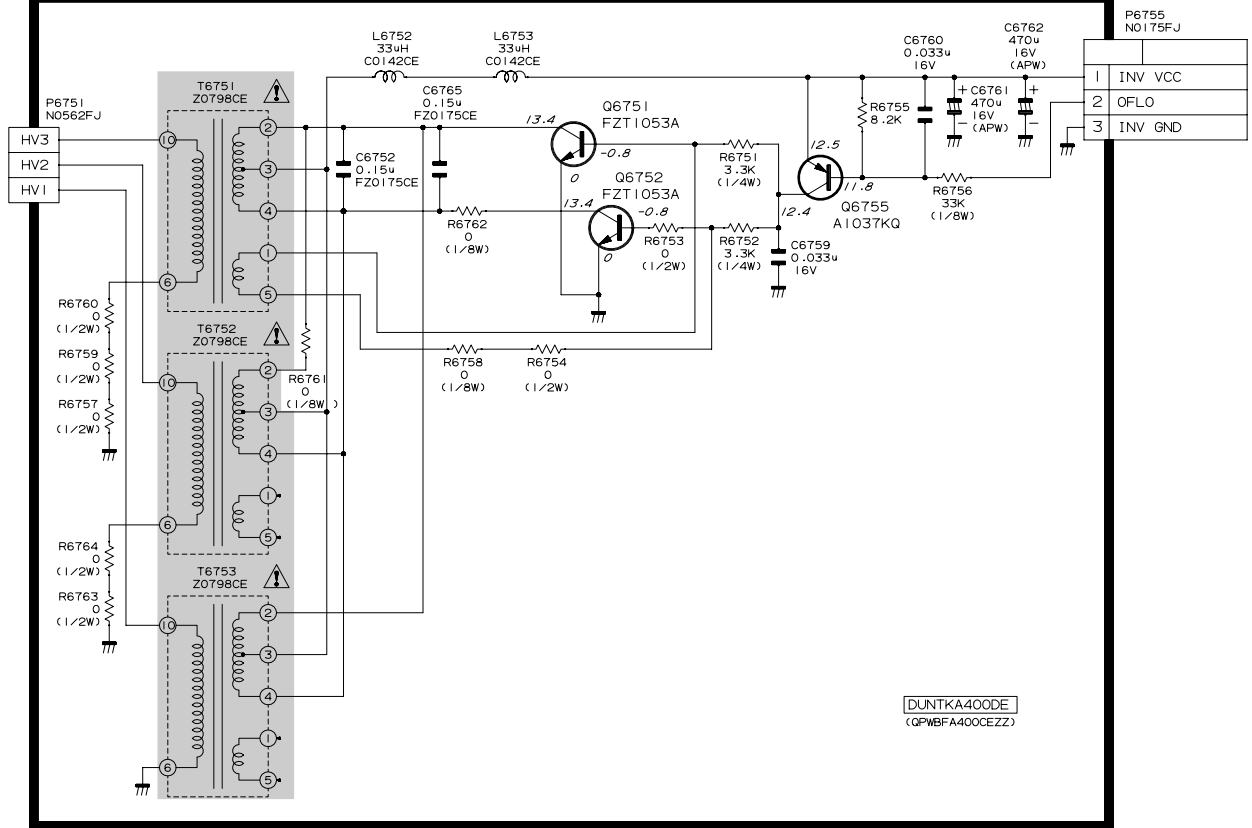


JACK Unit

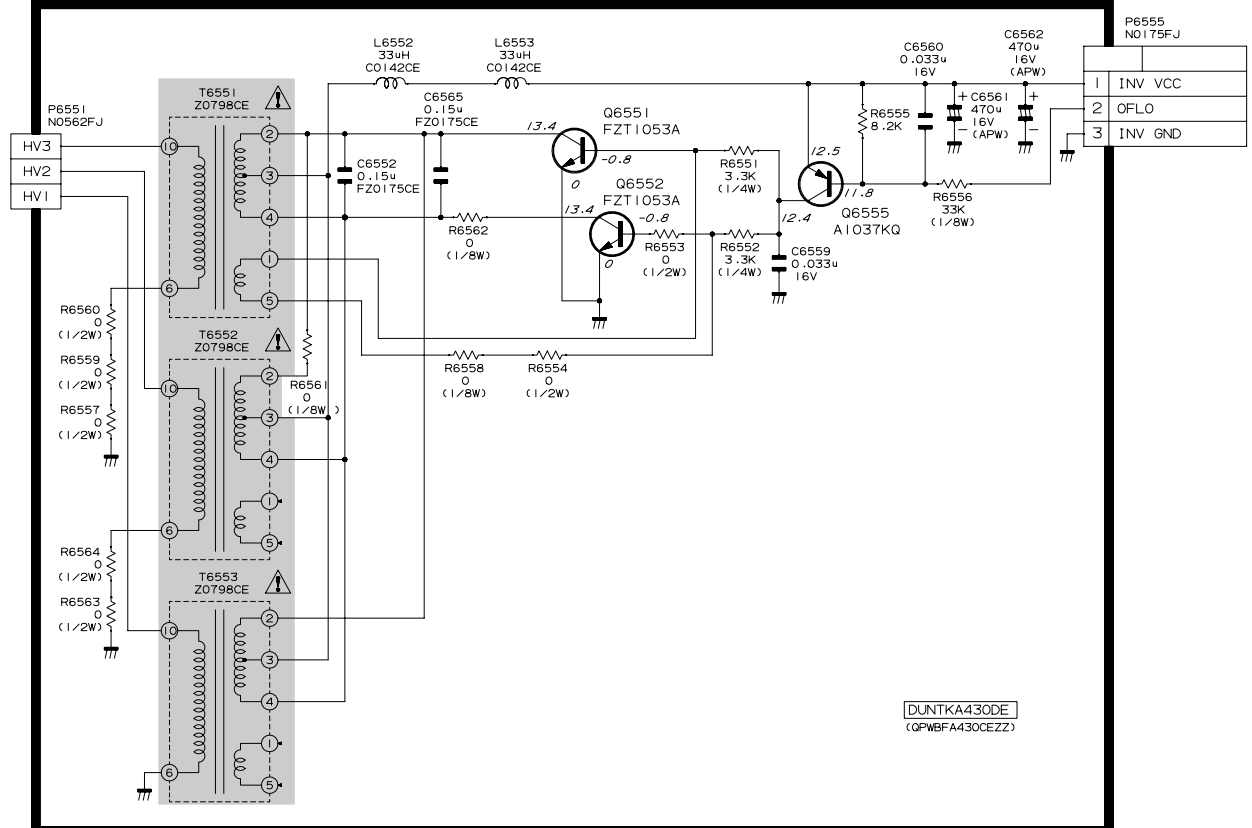


INVERTER-A and INVERTER-B Unit

INVERTER-A Unit



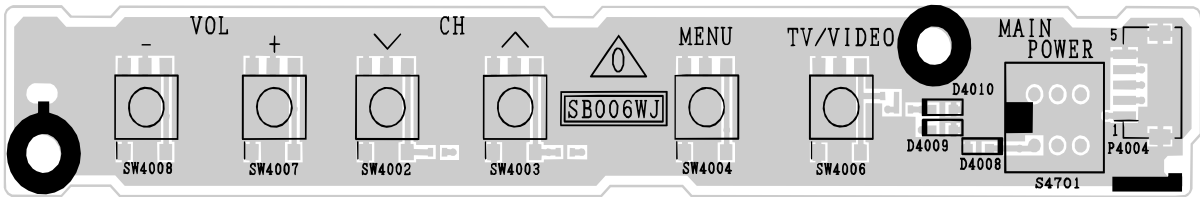
INVERTER-B Unit



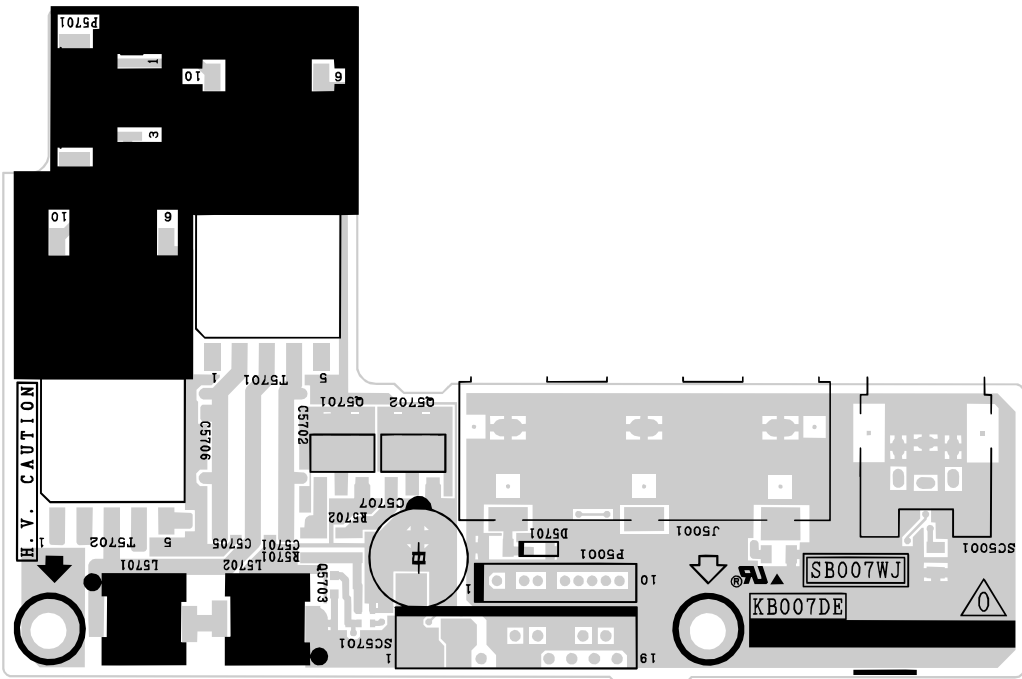
PRINTED WIRING BOARD ASSEMBLIES



R/C Receiver Unit (Component Side)



Operation Unit (Component Side)



Jack Unit (Component Side)

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "△" and shaded area in the Replacement Parts Lists and schematic diagrams.

The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |

MARK★: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code
----------	----------	---	-------------	------

LCD MODULE UNIT

	RLCDT0060CEZZ	J	LCD Panel	EP
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LAMP UNIT

△	KLMP-0110CEZZ	J	Lamp Unit	BA
△	KLMP-0111CEZZ	J	Lamp Unit	BA

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

	DUNTKA400DE02	-	Inverter A Unit	—
	DUNTKA430DE02	-	Inverter B Unit	—
	DUNTKA562DE06	-	Main Unit	—
	DUNTKB005DE01	-	Termina Unit	—
	DUNTKB006DE01	-	Operation Unit	—
	DUNTKB007DE01	-	Jack Unit	—
	DUNTKB008DE01	-	R/C Receiver Unit	—

PRINTED WIRING BOARD ASSEMBLIES

	TU3201	VTUVT2U5CD553	J	VHF Tuner	BD
--	--------	---------------	---	-----------	----

DUNTKA400DE02 INVERTER A UNIT

TRANSISTORS

Q6751	VSFZT1053A/-1	J	FZT1053A	AG
Q6752	VSFZT1053A/-1	J	FZT1053A	AG
Q6755	VS2SA1037KQ-1	J	2SA1037KQ	AA

COILS AND TRANSFORMERS

	L6752	RCiLC0142CEZZ	J	Coil, 33μH	AG
	L6753	RCiLC0142CEZZ	J	Coil, 33μH	AG
△	T6751	RTRNZ0798CEZZQ	J	Transformer	AM
△	T6752	RTRNZ0798CEZZQ	J	Transformer	AM
△	T6753	RTRNZ0798CEZZQ	J	Transformer	AM

CAPACITORS

C6752	RC-FZ0175CEZZ	J	0.15 50V	M.Polypro	AG
C6759	VCKYCY1CB333K	J	0.033 16V	Ceramic	AA

Ref. No.	Part No.	★	Description	Code
C6760	VCKYCY1CB333K	J	0.033 16V Ceramic	AA
C6761	VCEAPW1CN477M	J	470 16V Electrolytic	AE
C6762	VCEAPW1CN477M	J	470 16V Electrolytic	AE
C6765	RC-FZ0175CEZZ	J	0.15 50V M.Polypro	AG

RESISTORS

R6751	VRS-TW2ED332J	J	3.3k 1/4W	Metal Oxide	AB
R6752	VRS-TW2ED332J	J	3.3k 1/4W	Metal Oxide	AB
R6753	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA
R6754	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA
R6755	VRS-CY1JF822J	J	8.2k 1/16W	Metal Oxide	AA
R6756	VRS-TQ2BD333J	J	33k 1/8W	Metal Oxide	AA
R6757	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA
R6758	VRS-TQ2BD000J	J	0 1/8W	Metal Oxide	AA
R6759	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA
R6760	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA
R6761	VRS-TQ2BD000J	J	0 1/8W	Metal Oxide	AA
R6762	VRS-TQ2BD000J	J	0 1/8W	Metal Oxide	AA
R6763	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA
R6764	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA

MISCELLANEOUS PARTS

P6751	QPLGN0562FJZZY	J	Plug, 3pin	AE
P6755	QPLGN0175FJZZ	J	Plug, 3pin	AD

DUNTKA430DE02 INVERTER B UNIT

TRANSISTORS

Q6551	VSFZT1053A/-1	J	FZT1053A	AG
Q6552	VSFZT1053A/-1	J	FZT1053A	AG
Q6555	VS2SA1037KQ-1	J	2SA1037KQ	AA

COILS AND TRANSFORMERS

L6552	RCiLC0142CEZZ	J	Coil, 33μH	AG
L6553	RCiLC0142CEZZ	J	Coil, 33μH	AG
△ T6551	RTRNZ0798CEZZQ	J	Transformer	AM
△ T6552	RTRNZ0798CEZZQ	J	Transformer	AM
△ T6553	RTRNZ0798CEZZQ	J	Transformer	AM

CAPACITORS

C6552	RC-FZ0175CEZZ	J	0.15 50V	M.Polypro	AG
C6559	VCKYCY1CB333K	J	0.033 16V	Ceramic	AA
C6560	VCKYCY1CB333K	J	0.033 16V	Ceramic	AA
C6561	VCEAPW1CN477M	J	470 16V	Electrolytic	AE
C6562	VCEAPW1CN477M	J	470 16V	Electrolytic	AE
C6565	RC-FZ0175CEZZ	J	0.15 50V	M.Polypro	AG

RESISTORS

R6551	VRS-TW2ED332J	J	3.3k 1/4W	Metal Oxide	AB
R6552	VRS-TW2ED332J	J	3.3k 1/4W	Metal Oxide	AB
R6553	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA
R6554	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA
R6555	VRS-CY1JF822J	J	8.2k 1/16W	Metal Oxide	AA
R6556	VRS-TQ2BD333J	J	33k 1/8W	Metal Oxide	AA
R6557	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA
R6558	VRS-TQ2BD000J	J	0 1/8W	Metal Oxide	AA
R6559	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA
R6560	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA
R6561	VRS-TQ2BD000J	J	0 1/8W	Metal Oxide	AA
R6562	VRS-TQ2BD000J	J	0 1/8W	Metal Oxide	AA
R6563	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA
R6564	VRS-TX2HF000J	J	0 1/2W	Metal Oxide	AA

MISCELLANEOUS PARTS

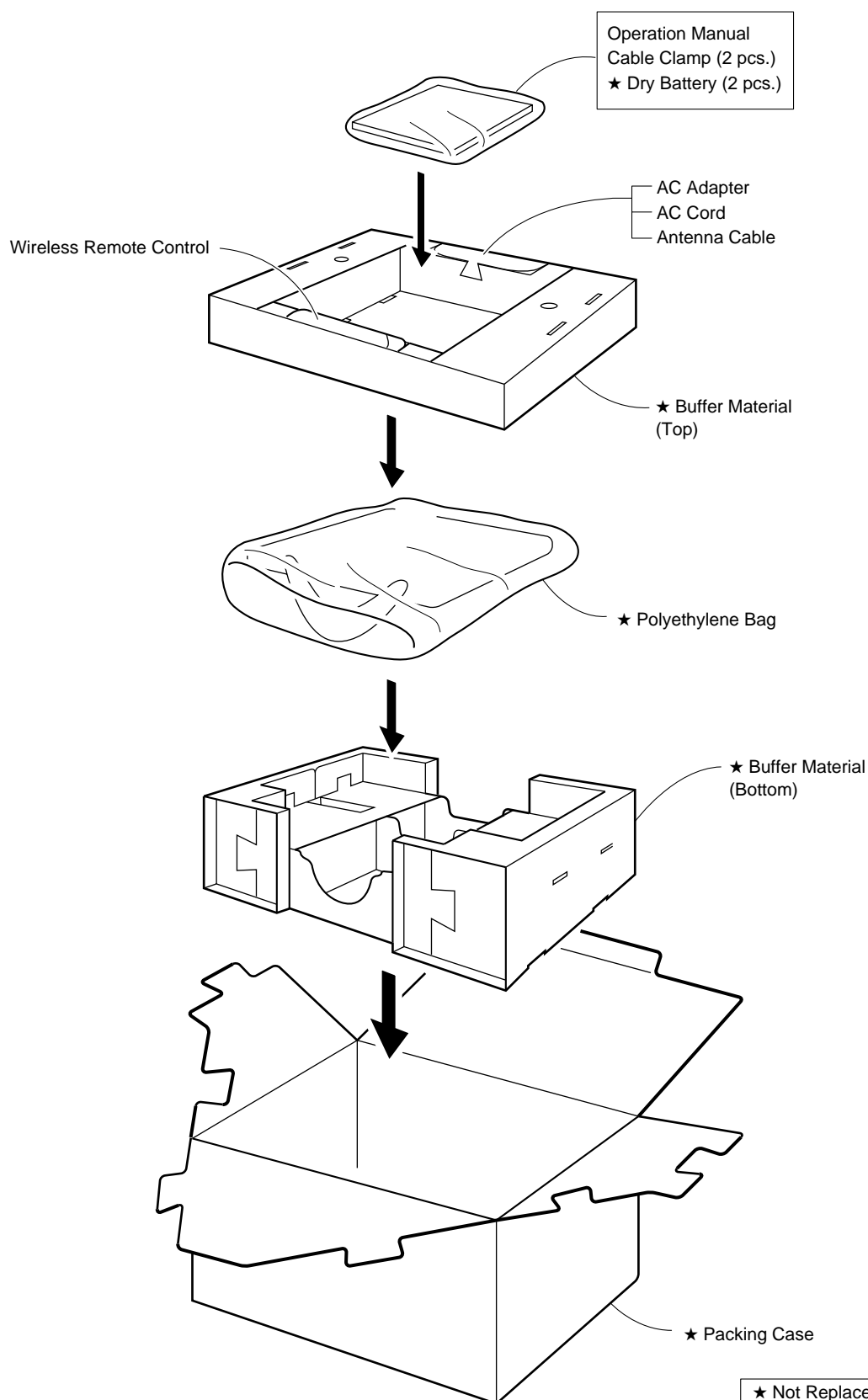
P6551	QPLGN0562FJZZY	J	Plug, 3pin	AE
P6555	QPLGN0175FJZZ	J	Plug, 3pin	AD

DUNTKA562DE06 MAIN UNIT

INTEGRATED CIRCUITS

IC401	VHiBA7046F/-1	J	BA7046F	AF
IC402	VHiNJM2235M-1	J	NJM2235M	AE

PACKING OF THE SET



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Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTKA562DE06 MAIN UNIT (Continued)					C409	VCKYTV1AB105K	J 1	10V Ceramic	AD
IC701	VHiAN8005M/-1	J	AN8005M	AD	C410	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
IC702	VHiBA033FP/-1	J	BA033FP-E2	AG	C411	VCKYTV1AB105K	J 1	10V Ceramic	AD
IC801	VHiVPC3230D-1	J	VPC3230D-QA-B2	BG	C412	VCCCCY1HH331J	J 330p	50V Ceramic	AA
IC1101	VHiMB8346BV-1	J	MB88346BPFV	AN	C413	VCCCCY1HH331J	J 330p	50V Ceramic	AA
IC1102	VHiNJM4565V-1	J	NJM4565V	AF	C414	VCCCCY1HH331J	J 330p	50V Ceramic	AA
IC1103	VHiNJM4565V-1	J	NJM4565V	AF	C701	VCKYTV1CF105Z	J 1	16V Ceramic	AB
IC1104	VHiNJM4565V-1	J	NJM4565V	AF	C702	VCEAPF1CN226M	J 22	16V Electrolytic	AD
IC1105	VHiBU4053V/-1	J	BU4053BCFV-E2	AE	C703	VCKYTV1CF105Z	J 1	16V Ceramic	AB
IC1106	VHiNJM4580V-1	J	NJM4580V	AE	C705	VCKYCY1CF334Z	J 0.33	16V Ceramic	AA
IC1107	VHiNJM4580V-1	J	NJM4580V	AE	C706	VCEAPF0JN226M	J 22	6.3V Electrolytic	AD
IC1108	VHiNJM4580V-1	J	NJM4580V	AE	C801	VCEAPF1CN106M	J 10	16V Electrolytic	AD
IC1109	VHiNJM353M/-1	J	NJM353M	AG	C802	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
IC1110	VHiBU4053V/-1	J	BU4053BCFV-E2	AE	C803	VCCCCY1HH7R0D	J 7p	50V Ceramic	AA
IC1201	RH-iX3378CEZZ	J	LR38797	AY	C804	VCCCCY1HH7R0D	J 7p	50V Ceramic	AA
IC1202	VHiPD485505-2	J	UPD485505G-25	AY	C805	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
IC1203	VHiTC4W53U/-1	J	TC4W53FU	AF	C806	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
IC1204	VHiTC4024BF-1	J	TC4024BF	AG	C807	VCKYCY1HB331K	J 330p	50V Ceramic	AA
IC1205	VHiTC4052BF1E	J	TC4052BF	AF	C808	VCKYCY1HB331K	J 330p	50V Ceramic	AA
IC2001	RH-iXA003WJZZ	J	M306V0ME-149FP	AE	C809	VCEAPK1CN107M	J 100	16V Electrolytic	AD
IC2002	VHiPST529DM-1	J	PST529DMT	AE	C810	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
IC2003	VHiTC4W66F/-1	J	TC4W66F	AE	C811	VCKYCY1HB331K	J 330p	50V Ceramic	AA
IC2004	VHiBR2416E2-1	J	BR24C16F	AK	C812	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
TRANSISTORS					C813	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
Q401	VS2SC2712Y/-1	J	2SC2712Y	AB	C814	VCKYCY1HB102K	J 1000p	50V Ceramic	AA
Q402	VS2SA1037KQ-1	J	2SA1037KQ	AA	C815	VCKYTV1CF105Z	J 1	16V Ceramic	AB
Q701	VS2SA1162Y/-1	J	2SA1162Y	AB	C816	VCKYTV1CF105Z	J 1	16V Ceramic	AB
Q703	VS2SA1162Y/-1	J	2SA1162Y	AB	C817	VCKYTV1CF105Z	J 1	16V Ceramic	AB
Q702	VSDTC144EE/-1	J	DTC144EE	AA	C818	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
Q1201	VSDTC144EE/-1	J	DTC144EE	AA	C819	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
Q1202	VSDTC144EE/-1	J	DTC144EE	AA	C820	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
Q2004	VSDTC144EE/-1	J	DTC144EE	AA	C821	VCEAPW1CN477M	J 470	16V Electrolytic	AE
Q2050	VSDTC144EE/-1	J	DTC144EE	AA	C822	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
Q1101	VS2SA1729/-1	J	2SA1729	AF	C823	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
Q1102	VS2SC4520/-1	J	2SC4520	AE	C824	VCKYCY1CF224Z	J 0.22	16V Ceramic	AA
DIODES					C825	VCKYCY1CF224Z	J 0.22	16V Ceramic	AA
D1101	VHD1SS250//1E	J	1SS250	AB	C826	VCEAPF0GW107M	J 100	4.0V Electrolytic	AC
D1201	VHDDAN222//1	J	DAN222	AA	C827	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
D2001	VHDDAN222//1	J	DAN222	AA	C829	VCE9PF1CN475M	J 4.7	16V Elect.(N,P)	AD
PACKAGED CIRCUITS					C830	VCKYCY1CF224Z	J 0.22	16V Ceramic	AA
X801	RCRSC0012CEZZ	J	Crystal	AH	C831	VCKYCY1CF224Z	J 0.22	16V Ceramic	AA
X901	RCRSB0250GEZZ	J	Crystal	AG	C832	VCKYCY1CF224Z	J 0.22	16V Ceramic	AA
FILTERS					C833	VCEAPF0GW107M	J 100	4.0V Electrolytic	AC
X2002	RFILZ0169TAZZ	J	Filter		C834	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
COILS AND TRANSFORMERS					C835	VCEAPF0JW107M	J 100	6.3V Electrolytic	AC
L401	VP-9N4R7KR56N	J	Peaking 4.7μH	AC	C836	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
L402	VP-9N4R7KR56N	J	Peaking 4.7μH	AC	C837	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
L801	VP-9N3R3KR46N	J	Peaking 3.3μH	AC	C838	VCEAPF0GW107M	J 100	4.0V Electrolytic	AC
L802	VP-9N3R3KR46N	J	Peaking 3.3μH	AC	C839	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
L803	VP-9N3R3KR46N	J	Peaking 3.3μH	AC	C840	VCKYTV1CF105Z	J 1	16V Ceramic	AB
L804	RCiLC0055CEZZ	J	Coil	AD	C1101	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
L805	RCiLC0055CEZZ	J	Coil	AD	C1102	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
L1201	VP-1M470J5R4N	J	Peaking 47μH	AC	C1103	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
L1202	VP-1M100J1R6N	J	Peaking 10μH	AC	C1104	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
L1203	VP-1M220J2R9N	J	Peaking 22μH	AC	C1105	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
L1204	VP-1M220J2R9N	J	Peaking 22μH	AC	C1106	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
L1205	VP-1M220J2R9N	J	Peaking 22μH	AC	C1107	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
CAPACITORS					C1108	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C401	VCKYTV1AB105K	J 1	10V Ceramic	AD	C1109	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C402	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	C1110	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C403	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C1111	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C404	VCEAPF1AW476M	J 47	10V Electrolytic	AB	C1112	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C405	VCKYCY1HB222K	J 2200p	50V Ceramic	AA	C1113	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C406	VCKYTV1AB105K	J 1	10V Ceramic	AD	C1114	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C407	VCCCCY1HH101J	J 100p	50V Ceramic	AA	C1115	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C408	VCKYTV1AB105K	J 1	10V Ceramic	AD	C1116	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
					C1117	VCCCCY1HH560J	J 56p	50V Ceramic	AA
					C1118	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
					C1119	VCKYTV1CF105Z	J 1	16V Ceramic	AB
					C1120	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
					C1122	VCKYTV1CF105Z	J 1	16V Ceramic	AB
					C1123	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
					C1124	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
					C1125	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD
					C1126	RC-EZ1339CEZZ	J 220	16V Electrolytic	AD
					C1129	RC-EZ1339CEZZ	J 220	16V Electrolytic	AD
					C1202	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTKA562DE06 MAIN UNIT (Continued)					R834	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C1203	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R836	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
C1204	VCCCCY1HH220J	J 22p	50V Ceramic	AA	R838	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
C1205	VCCCCY1HH220J	J 22p	50V Ceramic	AA	R1101	VRS-CA1JF333J	J 33k	1/16W Metal Oxide	AA
C1206	VCEAPF1HN106M	J 10	50V Electrolytic	AD	R1102	VRS-CA1JF103J	J 10k	1/16W Metal Oxide	AA
C1207	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R1104	VRS-CA1JF333J	J 33k	1/16W Metal Oxide	AA
C1208	VCKYTV1HF104Z	J 0.1	50V Ceramic	AA	R1105	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
C1209	VCEASH0JN227M	J 220	6.3V Electrolytic	AC	R1106	VRS-CA1JF333J	J 33k	1/16W Metal Oxide	AA
C1210	VCEAPF0GW107M	J 100	4.0V Electrolytic	AC	R1107	VRS-CA1JF103J	J 10k	1/16W Metal Oxide	AA
C1211	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R1108	VRS-CA1JF103J	J 10k	1/16W Metal Oxide	AA
C1212	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R1109	VRS-CA1JF333J	J 33k	1/16W Metal Oxide	AA
C1213	VCEAPF0JW107M	J 100	6.3V Electrolytic	AC	R1110	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
C1214	VCEAPF0GW107M	J 100	4.0V Electrolytic	AC	R1111	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
C1215	RC-KZ1025CEZZ	J 1	10V Ceramic	AB	R1112	VRS-CY1JF103F	J 10k	1/16W Metal Oxide	AA
C1216	VCEAPF1VW226M	J 22	35V Electrolytic	AB	R1113	VRS-CA1JF333J	J 33k	1/16W Metal Oxide	AA
C1218	VCEAPF1CN106M	J 10	16V Electrolytic	AD	R1114	VRS-CY1JF103F	J 10k	1/16W Metal Oxide	AA
C1219	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R1115	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C1220	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R1116	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C1222	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R1117	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C2006	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R1118	VRS-CY1JF823F	J 82k	1/16W Metal Oxide	AA
C2007	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R1119	VRS-CY1JF472F	J 4.7k	1/16W Metal Oxide	AA
C2009	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R1120	VRS-TX2HF3R3J	J 3.3	1/2W Metal Oxide	AB
C2010	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R1121	VRS-CY1JF391J	J 390	1/16W Metal Oxide	AA
C2017	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R1123	VRS-CY1JF391J	J 390	1/16W Metal Oxide	AA
C2018	VCCCCY1HH220J	J 22p	50V Ceramic	AA	R1124	VRS-CY1JF472F	J 4.7k	1/16W Metal Oxide	AA
C7104	VCEAPF1CN107M	J 100	16V Electrolytic	AD	R1125	VRS-TX2HF101J	J 100	1/2W Metal Oxide	AA
C7105	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R1126	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
RESISTORS					R1127	VRS-TX2HF2R2J	J 2.2	1/2W Metal Oxide	AB
R401	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA	R1128	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA
R402	VRS-CY1JF333J	J 33k	1/16W Metal Oxide	AA	R1129	VRS-CY1JF563F	J 56k	1/16W Metal Oxide	AA
R403	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA	R1130	VRS-TX2HF1R5J	J 1.5	1/2W Metal Oxide	AA
R404	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA	R1131	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA
R405	VRS-CY1JF562J	J 5.6k	1/16W Metal Oxide	AA	R1132	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
R406	VRS-CY1JF332J	J 3.3k	1/16W Metal Oxide	AA	R1133	VRS-CY1JF223F	J 22k	1/16W Metal Oxide	AA
R407	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA	R1134	VRS-CY1JF822F	J 8.2k	1/16W Metal Oxide	AA
R408	VRS-CY1JF332J	J 3.3k	1/16W Metal Oxide	AA	R1135	VRS-CY1JF561J	J 560	1/16W Metal Oxide	AA
R409	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA	R1136	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
R410	VRS-CY1JF474J	J 470k	1/16W Metal Oxide	AA	R1137	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
R412	VRS-CY1JF562J	J 5.6k	1/16W Metal Oxide	AA	R1138	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
R414	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA	R1148	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
R415	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA	R1149	VRS-CY1JF562J	J 5.6k	1/16W Metal Oxide	AA
R416	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA	R1150	VRS-CY1JF103F	J 10k	1/16W Metal Oxide	AA
R417	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA	R1151	VRS-CY1JF103F	J 10k	1/16W Metal Oxide	AA
R418	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA	R1152	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
R419	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA	R1153	VRS-CY1JF820J	J 82	1/16W Metal Oxide	AA
R701	VRS-CY1JF1R0J	J 1	1/16W Metal Oxide	AA	R1202	VRS-CB1JF220J	J 22	1/16W Metal Oxide	AC
R702	VRS-CY1JF154J	J 150k	1/16W Metal Oxide	AA	R1203	VRS-CA1JF220J	J 22	1/16W Metal Oxide	AA
R703	VRS-CY1JF274J	J 270k	1/16W Metal Oxide	AA	R1204	VRS-CB1JF220J	J 22	1/16W Metal Oxide	AC
R705	VRS-CY1JF1R0J	J 1	1/16W Metal Oxide	AA	R1205	VRS-CA1JF220J	J 22	1/16W Metal Oxide	AA
R726	VRS-CY1JF1R0J	J 1	1/16W Metal Oxide	AA	R1206	VRS-CB1JF220J	J 22	1/16W Metal Oxide	AC
R727	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R1207	VRS-CA1JF220J	J 22	1/16W Metal Oxide	AA
R739	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R1208	VRS-CY1JF560J	J 56	1/16W Metal Oxide	AA
R740	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R1209	VRS-CA1JF220J	J 22	1/16W Metal Oxide	AA
R801	VRS-CB1JF000J	J 00	1/16W Metal Oxide	AC	R1210	VRS-CY1JF220J	J 22	1/16W Metal Oxide	AA
R802	VRS-CB1JF000J	J 00	1/16W Metal Oxide	AC	R1211	VRS-CY1JF221J	J 220	1/16W Metal Oxide	AA
R803	VRS-CB1JF000J	J 00	1/16W Metal Oxide	AC	R1212	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
R804	VRS-CA1JF101J	J 100	1/16W Metal Oxide	AA	R1213	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
R805	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA	R1214	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R807	VRS-CY1JF750J	J 75	1/16W Metal Oxide	AA	R1216	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R808	VRS-CY1JF750J	J 75	1/16W Metal Oxide	AA	R1217	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R809	VRS-CY1JF750J	J 75	1/16W Metal Oxide	AA	R1218	VRS-CA1JF101J	J 100	1/16W Metal Oxide	AA
R810	VRS-CB1JF000J	J 00	1/16W Metal Oxide	AC	R1219	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
R811	VRS-CY1JF222J	J 2.2k	1/16W Metal Oxide	AA	R1220	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
R812	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA	R1221	VRS-CB1JF332J	J 3.3k	1/16W Metal Oxide	AC
R813	VRS-CB1JF000J	J 00	1/16W Metal Oxide	AC	R1222	VRS-CB1JF000J	J 00	1/16W Metal Oxide	AC
R814	VRS-CY1JF332J	J 3.3k	1/16W Metal Oxide	AA	R1223	VRS-CA1JF101J	J 100	1/16W Metal Oxide	AA
R815	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA	R1225	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
R816	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA	R1228	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
R819	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA	R1230	VRS-CY1JF562J	J 5.6k	1/16W Metal Oxide	AA
R826	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA	R1231	VRS-CY1JF000J	J 00	1/16W Metal Oxide	AA
R831	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R1232	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R832	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R1233	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R833	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA	R1234	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
					R1235	VRS-CB1JF473J	J 47k	1/16W Metal Oxide	AC
					R1236	VRS-CB1JF473J	J 47k	1/16W Metal Oxide	AC
					R1238	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
					R2002	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
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DUNTKA562DE06 MAIN UNIT(Continued)

R2003	VRS-CA1JF223J	J	22k	1/16W	Metal Oxide	AA
R2007	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2009	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2010	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2011	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R2012	VRS-CA1JF103J	J	10k	1/16W	Metal Oxide	AA
R2013	VRS-CA1JF223J	J	22k	1/16W	Metal Oxide	AA
R2014	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R2015	VRS-CB1JF331J	J	330	1/16W	Metal Oxide	AC
R2016	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2017	VRS-CA1JF102J	J	1k	1/16W	Metal Oxide	AA
R2018	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2021	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2022	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R2025	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2026	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2027	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2029	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2030	VRS-CA1JF333J	J	33k	1/16W	Metal Oxide	AA
R2033	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R2036	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R2037	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R2038	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2041	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2044	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2045	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2050	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2051	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2052	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2053	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2054	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

FB801	RBLN-0090CEZZ	J	Ferrite Bead		AD
FB802	RBLN-0090CEZZ	J	Ferrite Bead		AD
FB1201	RBLN-0090CEZZ	J	Ferrite Bead		AD
FB1203	RBLN-0076TAZZ	J	Ferrite Bead		AC
P2001	QPLGN0558REZZ	J	Plug, 5pin		AE
P2003	QPLGN1058REZZ	J	Plug, 10pin		
P2004	QPLGN0165FJZZ	J	Plug, 5pin		AD
SC1201	QSOCN0461FJZZ	J	Socket, 53pin		AH
SC1202	QSOCN0206FJZZ	J	Socket, 30pin		AF
SC2001	QSOCN0464FJZZ	J	Socket, 50pin		AH
	LHLDW1025TAZZ	J	Holder		AB
	LHLDW1123GEZZ	J	Holder		AB

DUNTKB005DE01 TERMINAL UNIT

INTEGRATED CIRCUITS

IC3301	VHINJM4560M-1	J	NJM4560M		AG
IC3303	VHINJM4560M-1	J	NJM4560M		AG
IC3304	RH-IX3371CEZZ	J	MSP3410G-QA-B5		BD
IC3305	VHILA4635A+-1	J	LA4635A		
IC3501	VHITC4053BF1E	J	TC4053BF		AF
IC3701	VHINJM2377M-1	J	NJM2377M		AK
IC3702	VHINJM2147M-1	J	NJM2147M-TE1		AF

TRANSISTORS

Q3201	VS2SC2712Y/-1	J	2SC2712Y		AB
Q3202	VS2SC2712Y/-1	J	2SC2712Y		AB
Q3203	VSDTC144EE/-1	J	DTC144EE		AA
Q3204	VSDTC144EE/-1	J	DTC144EE		AA
Q3205	VSDTC144EE/-1	J	DTC144EE		AA
Q3303	VSDTA144EE/-1	J	DTA144EE		AA
Q3304	VSDTC314TK/-1	J	DTC314TK		AC
Q3305	VSDTC314TK/-1	J	DTC314TK		AC
Q3306	VS2SC2712Y/-1	J	2SC2712Y		AB
Q3500	VSUMG4N++++-1	J	UMG4N++++		
Q3501	VS2SK1467/-1	J	2SK1467		AE
Q3502	VS2SK1467/-1	J	2SK1467		AE

Ref. No.	Part No.	★	Description	Code
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Q3503	VS2SC3928AR-1	J	2SC3928AR	AB
Q3504	VS2SC3928AR-1	J	2SC3928AR	AB
Q3505	VSDTC144EE/-1	J	DTC144EE	AA
Q3510	VSDTC314TK/-1	J	DTC314TK	AC
Q3511	VSDTC314TK/-1	J	DTC314TK	AC
Q3512	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q3600	VSUPA606T/-1	J	UPA606T	AD
Q3601	VSUPA606T/-1	J	UPA606T	AD
Q3602	VSUPA606T/-1	J	UPA606T	AD
Q3700	VSFMMT718/-1	J	FMMT718	AE
Q3701	VSDTC144EE/-1	J	DTC144EE	AA
Q3702	VS2SK2503/-1	J	2SK2503	AE
Q3704	VS2SC2712Y/-1	J	2SC2712Y	AB
Q3705	VS2SC2712Y/-1	J	2SC2712Y	AB
Q3706	VSFMY3////-1	J	FMY3	AB
Q3707	VS2SC2712Y/-1	J	2SC2712Y	AB
Q3708	VSDTC114YE/-1	J	DTC114YE	AB

DIODES

D3301	RH-EX1396CEZZ	J	RH-EX1396CEZZ		
D3302	VHDDAN222/-1	J	DAN222		AA
D3401	RH-EX1271CEZZ	J	RH-EX1271CEZZ		AB
D3402	RH-EX1271CEZZ	J	RH-EX1271CEZZ		AB
D3501	VHDDAN222/-1	J	DAN222		AA
D3600	VHDI MN10///-1	J	IMN10		AB
D3601	VHDI MN10///-1	J	IMN10		AB
D3602	VHDI MN10///-1	J	IMN10		AB
D3603	VHDI MN10///-1	J	IMN10		AB
D3700	VHDDAN222/-1	J	DAN222		AA
D3703	VHDSFPB56//2E	J	SFPB56		AC
D3704	VHD1SS250//1E	J	1SS250		AB
D3705	VHD1SS250//1E	J	1SS250		AB
D3706	VHDSFPB74//2E	J	SFPB74		AD
D3707	VHDSFPB74//2E	J	SFPB74		AD
D3708	VHDDAN222/-1	J	DAN222		AA
D3709	VHDDAN222/-1	J	DAN222		AA

PACKAGED CIRCUITS

X3301	RCRSB0307CEZZ	J	Crystal		
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COILS AND TRANSFORMERS

L3201	VP-1M220J2R9N	J	Peaking 22μH		AC
L3202	RCiLC0141CEZZ	J	Coil		AF
L3301	VP-1M101J7R7N	J	Peaking 100μH		AC
L3500	VP-1M101J7R7N	J	Peaking 100μH		AC
L3302	VP-1M4R7J1R2N	J	Peaking 4.7μH		AB
L3700	RCiLC0130CEZZ	J	Coil		AG
L3702	RCiLC0130CEZZ	J	Coil		AG
L3703	RCiLC0057CEZZ	J	Coil		AD
L3704	RCiLC0055CEZZ	J	Coil		AD
T3701	RTRNZ0800CEZZ	J	Transformer		

CONTROLS

R3760	RVR-M8026TAZZ	J	Variable resistor		AC
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CAPACITORS

C3201	VCKYCY1HB102K	J	1000p 50V	Ceramic	AA
C3202	VCCCCY1HH330J	J	33p 50V	Ceramic	AA
C3203	VCCCCY1HH330J	J	33p 50V	Ceramic	AA
C3204	VCKYCY1EF104Z	J	0.1 25V	Ceramic	AA
C3205	VCKYCY1EF104Z	J	0.1 25V	Ceramic	AA
C3206	VCKYCY1HF103Z	J	0.01 50V	Ceramic	AA
C3208	RC-EZ1351CEZZ	J	3300 6.3	Electrolytic	AF
C3210	VCKYCY1EF104Z	J	0.1 25V	Ceramic	AA
C3315	VCKYCY1EF104Z	J	0.1 25V	Ceramic	AA
C3316	VCKYCY1CB273K	J	0.027 16V	Ceramic	AA
C3317	VCKYCY1CB273K	J	0.027 16V	Ceramic	AA
C3318	VCKYCY1CB273K	J	0.027 16V	Ceramic	AA
C3319	VCKYCY1CB273K	J	0.027 16V	Ceramic	AA
C3320	VCEAPF1CN476M	J	47 16V	Electrolytic	AD
C3321	VCEAPF1HN225M	J	2.2 50V	Electrolytic	AD
C3322	VCEAPF1HN225M	J	2.2 50V	Electrolytic	AD
C3323	VCKYCY1EF104Z	J	0.1 25V	Ceramic	AA
C3324	VCEAPF1HN225M	J	2.2 50V	Electrolytic	AD
C3325	VCEAPF1HN225M	J	2.2 50V	Electrolytic	AD

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNKB005DE01									
TERMINAL UNIT(Continued)									
C3328	VCEAPF1HN225M	J 2.2	50V Electrolytic	AD	C3604	VCKYTQ1EF105Z	J 1	25V Ceramic	AD
C3329	VCEAPF1HN225M	J 2.2	50V Electrolytic	AD	C3605	VCKYTQ1EF105Z	J 1	25V Ceramic	AD
C3330	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C3700	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C3332	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD	C3701	VCEAPF1EW475M	J 4.7	25V Electrolytic	AB
C3333	VCEAPF1CN107M	J 100	16V Electrolytic	AD	C3702	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C3334	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C3703	VCEAPT1CN226M	J 22	16V Electrolytic	AC
C3335	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	C3704	VCCCCY1HH471J	J 470p	50V Ceramic	AA
C3336	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	C3705	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C3337	VCEAPF1CN106M	J 10	16V Electrolytic	AD	C3710	VCEASH1CN337M	J 330	16V Electrolytic	AA
C3338	VCEAPF1CN106M	J 10	16V Electrolytic	AD	C3711	VCKYCY1HB562K	J 5600p	50V Ceramic	AA
C3339	VCEAPF1HN335M	J 3.3	50V Electrolytic	AA	C3712	RC-EZ1176CEZZ	J 100	16V Electrolytic	AK
C3340	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C3713	VCKYCY1HB562K	J 5600p	50V Ceramic	AA
C3341	VCCCCY1HH101J	J 100p	50V Ceramic	AA	C3714	VCEASH1HN476M	J 47	50V Electrolytic	AA
C3342	VCCCCY1HH101J	J 100p	50V Ceramic	AA	C3715	VCKYTV1HF104Z	J 0.1	50V Ceramic	AA
C3343	VCCCCY1HH101J	J 100p	50V Ceramic	AA	C3716	VCEASH1EN227M	J 220	25V Electrolytic	AB
C3344	VCCCCY1HH101J	J 100p	50V Ceramic	AA	C3717	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C3345	VCCCCY1HH101J	J 100p	50V Ceramic	AA	C3718	VCEASH1CN337M	J 330	16V Electrolytic	AA
C3346	VCCCCY1HH101J	J 100p	50V Ceramic	AA	C3719	VCKYTV1HF104Z	J 0.1	50V Ceramic	AA
C3347	VCEAPF1HW225M	J 2.2	50V Electrolytic	AB	C3720	VCCCCY1HH181J	J 180p	50V Ceramic	AA
C3348	VCCCCY1HH101J	J 100p	50V Ceramic	AA	C3721	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C3349	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C3722	RC-EZ1177CEZZ	J 150	6.3V Electrolytic	AH
C3350	VCEAPF1CN106M	J 10	16V Electrolytic	AD	C3724	VCEASH1CN337M	J 330	16V Electrolytic	AA
C3351	RC-KZ1025CEZZ	J 1	10V Ceramic	AB	C3725	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C3352	VCEAPF0JN107M	J 100	6.3V Electrolytic	AD	C3727	VCEAPW0JN477M	J 470	6.3V Electrolytic	AE
C3354	VCCCCY1HH560J	J 56p	50V Ceramic	AA	C3728	VCKYTV1CF105Z	J 1	16V Ceramic	AB
C3355	VCCCCY1HH560J	J 56p	50V Ceramic	AA	C3730	VCKYTV1HF104Z	J 0.1	50V Ceramic	AA
C3356	VCCCCY1HH560J	J 56p	50V Ceramic	AA	C3731	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C3357	VCCCCY1HH5R0C	J 5.0p	50V Ceramic	AA	C3732	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C3358	VCCCCY1HH5R0C	J 5.0p	50V Ceramic	AA	C3733	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C3359	VCEAPF1CN106M	J 10	16V Electrolytic	AD	C3734	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C3360	VCEAPF1CN107M	J 100	16V Electrolytic	AD	C3735	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C3361	VCEAPF1HN105M	J 1	50V Electrolytic	AD	C3736	VCEA4U1CN108M	J 1000	16V Electrolytic	AD
C3362	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	C3739	VCEA4U1CN108M	J 1000	16V Electrolytic	AD
C3363	VCEAPF1HN225M	J 2.2	50V Electrolytic	AD	RESISTORS				
C3364	VCEAPF1HN105M	J 1	50V Electrolytic	AD	R3201	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C3365	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	R3202	VRS-CY1JF153J	J 15k	1/16W Metal Oxide	AA
C3366	VCEAPF1HN225M	J 2.2	50V Electrolytic	AD	R3203	VRS-CY1JF332J	J 3.3k	1/16W Metal Oxide	AA
C3367	VCEAPF1CN106M	J 10	16V Electrolytic	AD	R3204	VRS-CY1JF152J	J 1.5k	1/16W Metal Oxide	AA
C3368	VCEAPF1CN106M	J 10	16V Electrolytic	AD	R3205	VRS-CY1JF331J	J 330	1/16W Metal Oxide	AA
C3369	RC-EZ1274CEZZ	J 1000	16V Electrolytic	AD	R3206	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C3370	VCKYTV1CF105Z	J 1	16V Ceramic	AB	R3207	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C3371	VCEA4U1CN228M	J 2200	16V Electrolytic	AE	R3208	VRS-CA1JF561J	J 560	1/16W Metal Oxide	AA
C3372	RC-EZ1274CEZZ	J 1000	16V Electrolytic	AD	R3313	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
C3373	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	R3314	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
C3375	VCKYCY1EB223K	J 0.022	25V Ceramic	AA	R3325	VRS-CY1JF823F	J 82k	1/16W Metal Oxide	AA
C3377	VCKYCY1EB223K	J 0.022	25V Ceramic	AA	R3326	VRS-CY1JF823F	J 82k	1/16W Metal Oxide	AA
C3380	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R3327	VRS-CY1JF154F	J 150k	1/16W Metal Oxide	AA
C3382	RC-KZ1025CEZZ	J 1	10V Ceramic	AB	R3328	VRS-CY1JF154F	J 150k	1/16W Metal Oxide	AA
C3383	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R3331	VRS-CY1JF473J	J 47k	1/16W Metal Oxide	AA
C3385	VCKYCY1HB562K	J 5600p	50V Ceramic	AA	R3332	VRS-CY1JF473J	J 47k	1/16W Metal Oxide	AA
C3386	VCKYCY1HB562K	J 5600p	50V Ceramic	AA	R3333	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
C3387	VCKYCY1HB561K	J 560p	50V Ceramic	AA	R3334	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
C3388	VCKYCY1HB561K	J 560p	50V Ceramic	AA	R3335	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C3389	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R3336	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C3401	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R3337	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
C3507	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R3338	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
C3508	RC-EZ0417CEZZ	J 150	16V Electrolytic	AD	R3341	VRS-CY1JF221J	J 220	1/16W Metal Oxide	AA
C3509	VCEAPF1CW107M	J 100	16V Electrolytic	AD	R3342	VRS-CY1JF221J	J 220	1/16W Metal Oxide	AA
C3510	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R3343	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
C3512	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	R3344	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
C3513	VCEAPW1CN477M	J 470	16V Electrolytic	AE	R3347	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C3514	VCEAPF0JW336M	J 33	6.3V Electrolytic	AB	R3348	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
C3515	VCEAPF0JW226M	J 22	6.3V Electrolytic	AB	R3350	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C3516	RC-KZ1025CEZZ	J 1	10V Ceramic	AB	R3351	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
C3517	VCKYCY1EB223K	J 0.022	25V Ceramic	AA	R3353	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
C3518	VCKYCY1EB223K	J 0.022	25V Ceramic	AA	R3354	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
C3520	VCEAPF1EW475M	J 4.7	25V Electrolytic	AB	R3355	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
C3521	VCEAPF1EW475M	J 4.7	25V Electrolytic	AB	R3356	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
C3522	VCEAPF1CW106M	J 10	16V Electrolytic	AB	R3357	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA
C3600	VCKYTQ1EF105Z	J 1	25V Ceramic	AD	R3358	VRS-CY1JF562J	J 5.6k	1/16W Metal Oxide	AA
C3601	VCKYTQ1EF105Z	J 1	25V Ceramic	AD	R3359	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
C3602	VCKYTQ1EF105Z	J 1	25V Ceramic	AD	R3360	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C3603	VCKYTQ1EF105Z	J 1	25V Ceramic	AD	R3361	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
					R3362	VRS-CY1JF152J	J 1.5k	1/16W Metal Oxide	AA
					R3363	VRS-CY1JF152J	J 1.5k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
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DUNTKB005DE01
TERMINAL UNIT(Continued)

R3364	VRS-CY1JF122J	J 1.2k	1/16W	Metal Oxide	AA
R3365	VRS-CY1JF332J	J 3.3k	1/16W	Metal Oxide	AA
R3366	VRS-CY1JF332J	J 3.3k	1/16W	Metal Oxide	AA
R3367	VRS-CY1JF102J	J 1k	1/16W	Metal Oxide	AA
R3368	VRS-CY1JF822J	J 8.2k	1/16W	Metal Oxide	AA
R3369	VRS-CY1JF101J	J 100	1/16W	Metal Oxide	AA
R3370	VRS-CY1JF101J	J 100	1/16W	Metal Oxide	AA
R3371	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3372	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3373	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3374	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3375	VRS-CY1JF822J	J 8.2k	1/16W	Metal Oxide	AA
R3376	VRS-CY1JF102J	J 1k	1/16W	Metal Oxide	AA
R3377	VRS-CY1JF822J	J 8.2k	1/16W	Metal Oxide	AA
R3378	VRS-CY1JF102J	J 1k	1/16W	Metal Oxide	AA
R3379	VRS-CY1JF822J	J 8.2k	1/16W	Metal Oxide	AA
R3380	VRS-CY1JF103J	J 10k	1/16W	Metal Oxide	AA
R3381	VRS-CY1JF562J	J 5.6k	1/16W	Metal Oxide	AA
R3383	VRS-CY1JF153J	J 15k	1/16W	Metal Oxide	AA
R3384	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3386	VRS-CY1JF822F	J 8.2k	1/16W	Metal Oxide	AA
R3387	VRS-CY1JF822F	J 8.2k	1/16W	Metal Oxide	AA
R3388	VRS-CY1JF822F	J 8.2k	1/16W	Metal Oxide	AA
R3389	VRS-CY1JF822F	J 8.2k	1/16W	Metal Oxide	AA
R3401	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3402	VRS-TQ2BD750J	J 75	1/8W	Metal Oxide	AA
R3409	VRS-CY1JF101J	J 100	1/16W	Metal Oxide	AA
R3410	VRS-CY1JF101J	J 100	1/16W	Metal Oxide	AA
R3411	VRS-TQ2BD750J	J 75	1/8W	Metal Oxide	AA
R3412	VRS-TQ2BD750J	J 75	1/8W	Metal Oxide	AA
R3413	VRS-CY1JF101J	J 100	1/16W	Metal Oxide	AA
R3428	VRS-CY1JF750J	J 75	1/16W	Metal Oxide	AA
R3429	VRS-CY1JF750J	J 75	1/16W	Metal Oxide	AA
R3430	VRS-CY1JF750J	J 75	1/16W	Metal Oxide	AA
R3431	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3432	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3433	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3523	VRS-CY1JF103J	J 10k	1/16W	Metal Oxide	AA
R3524	VRS-CY1JF103J	J 10k	1/16W	Metal Oxide	AA
R3528	VRS-CY1JF821J	J 820	1/16W	Metal Oxide	AA
R3529	VRS-CY1JF821J	J 820	1/16W	Metal Oxide	AA
R3530	VRS-CY1JF104J	J 100k	1/16W	Metal Oxide	AA
R3531	VRS-TQ2BD750J	J 75	1/8W	Metal Oxide	AA
R3532	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3533	VRS-CY1JF680J	J 68	1/16W	Metal Oxide	AA
R3534	VRS-CY1JF101J	J 100	1/16W	Metal Oxide	AA
R3535	VRS-CY1JF223J	J 22k	1/16W	Metal Oxide	AA
R3536	VRS-CY1JF562J	J 5.6k	1/16W	Metal Oxide	AA
R3537	VRS-CY1JF272J	J 2.7k	1/16W	Metal Oxide	AA
R3542	VRS-CY1JF680J	J 68	1/16W	Metal Oxide	AA
R3543	VRS-CY1JF562J	J 5.6k	1/16W	Metal Oxide	AA
R3544	VRS-CY1JF104J	J 100k	1/16W	Metal Oxide	AA
R3545	VRS-CY1JF103J	J 10k	1/16W	Metal Oxide	AA
R3546	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3547	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3550	VRS-TX2HF331J	J 330	1/2W	Metal Oxide	AB
R3551	VRS-TX2HF331J	J 330	1/2W	Metal Oxide	AB
R3552	VRS-CY1JF153J	J 15k	1/16W	Metal Oxide	AA
R3553	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3600	VRS-CA1JF222J	J 2.2k	1/16W	Metal Oxide	AA
R3601	VRS-CB1JF222J	J 2.2k	1/16W	Metal Oxide	AC
R3603	VRS-CB1JF824J	J 820k	1/16W	Metal Oxide	
R3604	VRS-CA1JF824J	J 820k	1/16W	Metal Oxide	
R3605	VRS-CB1JF562J	J 5.6k	1/16W	Metal Oxide	AC
R3606	VRS-CA1JF562J	J 5.6k	1/16W	Metal Oxide	AA
R3607	VRS-CY1JF563J	J 56k	1/16W	Metal Oxide	AA
R3700	VRS-CY1JF472J	J 4.7k	1/16W	Metal Oxide	AA
R3701	VRS-CY1JF1R0J	J 1	1/16W	Metal Oxide	AA
R3702	VRS-TW2ED102J	J 1k	1/4W	Metal Oxide	AA
R3703	VRS-CY1JF274J	J 270k	1/16W	Metal Oxide	AA
R3704	VRS-CY1JF133F	J 13k	1/16W	Metal Oxide	AA
R3705	VRS-CY1JF184J	J 180k	1/16W	Metal Oxide	AA
R3706	VRS-CY1JF100J	J 10	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
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R3707	VRS-CY1JF105J	J 1M	1/16W	Metal Oxide	AA
R3708	VRS-CY1JF682J	J 6.8k	1/16W	Metal Oxide	AA
R3710	VRS-CY1JF273F	J 27k	1/16W	Metal Oxide	AA
R3716	VRS-TX2HF000J	J 00	1/2W	Metal Oxide	AA
R3718	VRS-CR3AD821J	J 820	1W	Metal Oxide	AC
R3721	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3722	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3724	VRS-CY1JF1R0J	J 1	1/16W	Metal Oxide	AA
R3725	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3726	VRS-TQ2BD683J	J 68k	1/8W	Metal Oxide	AA
R3727	VRS-CY1JF000J	J 0	1/16W	Metal Oxide	AA
R3728	VRS-CY1JF393J	J 39k	1/16W	Metal Oxide	AA
R3730	VRS-CY1JF223J	J 22k	1/16W	Metal Oxide	AA
R3731	VRS-CY1JF222J	J 2.2k	1/16W	Metal Oxide	AA
R3733	VRS-CY1JF102J	J 1k	1/16W	Metal Oxide	AA
R3734	VRS-CY1JF103F	J 10k	1/16W	Metal Oxide	AA
R3735	VRS-CY1JF243F	J 24k	1/16W	Metal Oxide	AA
R3736	VRS-CY1JF223F	J 22k	1/16W	Metal Oxide	AA
R3737	VRS-CY1JF103J	J 10k	1/16W	Metal Oxide	AA
R3738	VRS-CY1JF103F	J 10k	1/16W	Metal Oxide	AA
R3739	VRS-CY1JF622F	J 6.2k	1/16W	Metal Oxide	AA
R3740	VRS-CY1JF473F	J 47k	1/16W	Metal Oxide	AA
R3741	VRS-CY1JF113F	J 11k	1/16W	Metal Oxide	AA
R3742	VRS-CY1JF242F	J 2.4k	1/16W	Metal Oxide	AA
R3743	VRS-CY1JF332F	J 3.3k	1/16W	Metal Oxide	AA
R3744	VRS-CY1JF332F	J 3.3k	1/16W	Metal Oxide	AA
R3745	VRS-CY1JF682F	J 6.8k	1/16W	Metal Oxide	AA
R3746	VRS-CY1JF122F	J 1.2k	1/16W	Metal Oxide	AA
R3747	VRS-CY1JF102J	J 1k	1/16W	Metal Oxide	AA
R3748	VRS-CY1JF153J	J 15k	1/16W	Metal Oxide	AA
R3749	VRS-CY1JF102J	J 1k	1/16W	Metal Oxide	AA
R3750	VRS-CY1JF391J	J 390	1/16W	Metal Oxide	AA
R3751	VRS-TV1JD103J	J 10k	1/16W	Metal Oxide	AA
R3752	VRS-CY1JF102J	J 1k	1/16W	Metal Oxide	AA
R3754	VRS-CY1JF103J	J 10k	1/16W	Metal Oxide	AA
R3761	VRS-CY1JF272J	J 2.7k	1/16W	Metal Oxide	AA
R3762	VRS-TQ2BD000J	J 0	1/8W	Metal Oxide	AA
R3765	VRS-TW2ED000J	J 0	1/4W	Metal Oxide	AB
R3770	VRS-TX2HF000J	J 0	1/2W	Metal Oxide	AA

MISCELLANEOUS PARTS

FB3301	RBLN-0006TAZZ	J Ferrite Bead	AB
FB3302	RBLN-0035TAZZ	J Ferrite Bead	AB
FB3700	RBLN-0095CEZZ	J Ferrite Bead	AD
FB3701	RBLN-0095CEZZ	J Ferrite Bead	AD
FB3704	RBLN-0051TAZZ	J Ferrite Bead	AC
FB3705	RBLN-0051TAZZ	J Ferrite Bead	AC
FB3706	RBLN-0051TAZZ	J Ferrite Bead	AC
FB3707	RBLN-0051TAZZ	J Ferrite Bead	AC
FB3708	RBLN-0051TAZZ	J Ferrite Bead	AC
FB3709	RBLN-0095CEZZ	J Ferrite Bead	AD
FH3701	QFSDH1002CEZZ	J Fuse Holder	AA
FH3702	QFSDH1002CEZZ	J Fuse Holder	AA
FH3703	QFSDH1002CEZZ	J Fuse Holder	AA
FH3704	QFSDH1002CEZZ	J Fuse Holder	AA
FH3705	QFSDH1002CEZZ	J Fuse Holder	AA
FH3706	QFSDH1002CEZZ	J Fuse Holder	AA
FH3707	QFSDH1002CEZZ	J Fuse Holder	AA
FH3708	QFSDH1002CEZZ	J Fuse Holder	AA
F3701	QFS-C1622CEZZ	J Fuse, 1.6A/250V	AD
F3702	QFS-C1622CEZZ	J Fuse, 1.6A/250V	AD
F3703	QFS-C2023CEZZ	J Fuse, 2A/250V	AD
F3704	QFS-C2023CEZZ	J Fuse, 2A/250V	AD
J3301	QJAKE0200CE09	J Jack, Component(White)	AE
J3302	QJAKE0200CE02	J Jack, Component(Red)	AE
J3401	QJAKE0200CE04	J Jack, AV2 I/O (Yellow)	AE
J3402	QJAKE0200CE09	J Jack, AV2 I/O (White)	AE
J3403	QJAKE0200CE02	J Jack, AV2 I/O (Red)	AE
J3404	QJAKE0200CE05	J Jack, Component(Y)	AE
J3405	QJAKE0200CE06	J Jack, Component(Pb)	AE
J3406	QJAKE0200CE02	J Jack, Component(PR)	AE
J3500	QJAKJ0046CEZZ	J Jack	AE
J3701	QJAKE0193CEZZ	J Jack	AK
P3401	QPLGN1020REZZ	J Plug, 10pin	AB
P3500	QPLGN0174FJZZ	J Plug, 2pin	AC
P3501	QPLGN0174FJZZ	J Plug, 2pin	AC

Ref. No.	Part No.	★	Description	Code
DUNKTB005DE01 TERMINAL UNIT(Continued)				
P3601	QPLGN0378GEZZ	J	Plug, 3pin	AB
P3602	QPLGN0378GEZZ	J	Plug, 3pin	AB
P3701	QPLGN0678GEZZ	J	Plug, 6pin	AB
P3702	QPLGN0578GEZZ	J	Plug, 5pin	AB
SC3403	QSOCN0464FJZZ	J	Socket, 50pin	AH
	QCNW-5854CEZZ	J	Connecting Cord	AF
	QCNW-5857CEZZ	J	Connecting Cord	AF
	QCNW-5936CEZZ	J	Connecting Cord	AE

DUNKTB006DE01 OPERATION UNIT				
DIODE				
D4008	RH-EX0891CEZZ	J	Zener Diode	AC
D4009	RH-EX0879CEZZ	J	Zener Diode	AD
D4010	RH-EX0879CEZZ	J	Zener Diode	AD
RESISTORS				
R4005	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R4011	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R4006	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R4012	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
SWITCHES				
S4701	QSW-P0035GEZZ	J	Switch	AF
SW4002	QSW-K0108CEZZ	J	Switch, CH DOWN	AD
SW4003	QSW-K0108CEZZ	J	Switch, CH UP	AD
SW4004	QSW-K0108CEZZ	J	Switch, MENU	AD
SW4006	QSW-K0108CEZZ	J	Switch, TV/VIDEO	AD
SW4007	QSW-K0108CEZZ	J	Switch, VOL(+)	AD
SW4008	QSW-K0108CEZZ	J	Switch, VOL(-)	AD

MISCELLANEOUS PARTS				
P4004	QPLGN0564TAZZ	J	Plug, 5pin	AC

DUNKTB007DE01 JACK UNIT				
MISCELLANEOUS PARTS				
J5001	QJAKG0068CEZZ	J	Jack	AG
P5001	QPLGN1020REZZ	J	Plug, 10pin	AB
SC5001	QSOCN0456CEZZ	J	Socket	AE

DUNKTB008DE01 R/C RECEIVER UNIT				
TRANSISTORS				
Q4003	VSDTC144EE/-1	J	DTC144EE	AA
Q4004	VSDTC144EE/-1	J	DTC144EE	AA
Q4007	VSUMG4N++++-1	J	UMG4N++++	

DIODES				
D4012	RH-EX0879CEZZ	J	Zener Diode	AD
D4013	RH-EX0879CEZZ	J	Zener Diode	AD
D4022	RH-EX0879CEZZ	J	Zener Diode	AD
D4014	RH-PX0421CEZZ	J	PhotoDiode	AD
D4015	RH-PX0421CEZZ	J	PhotoDiode	AD

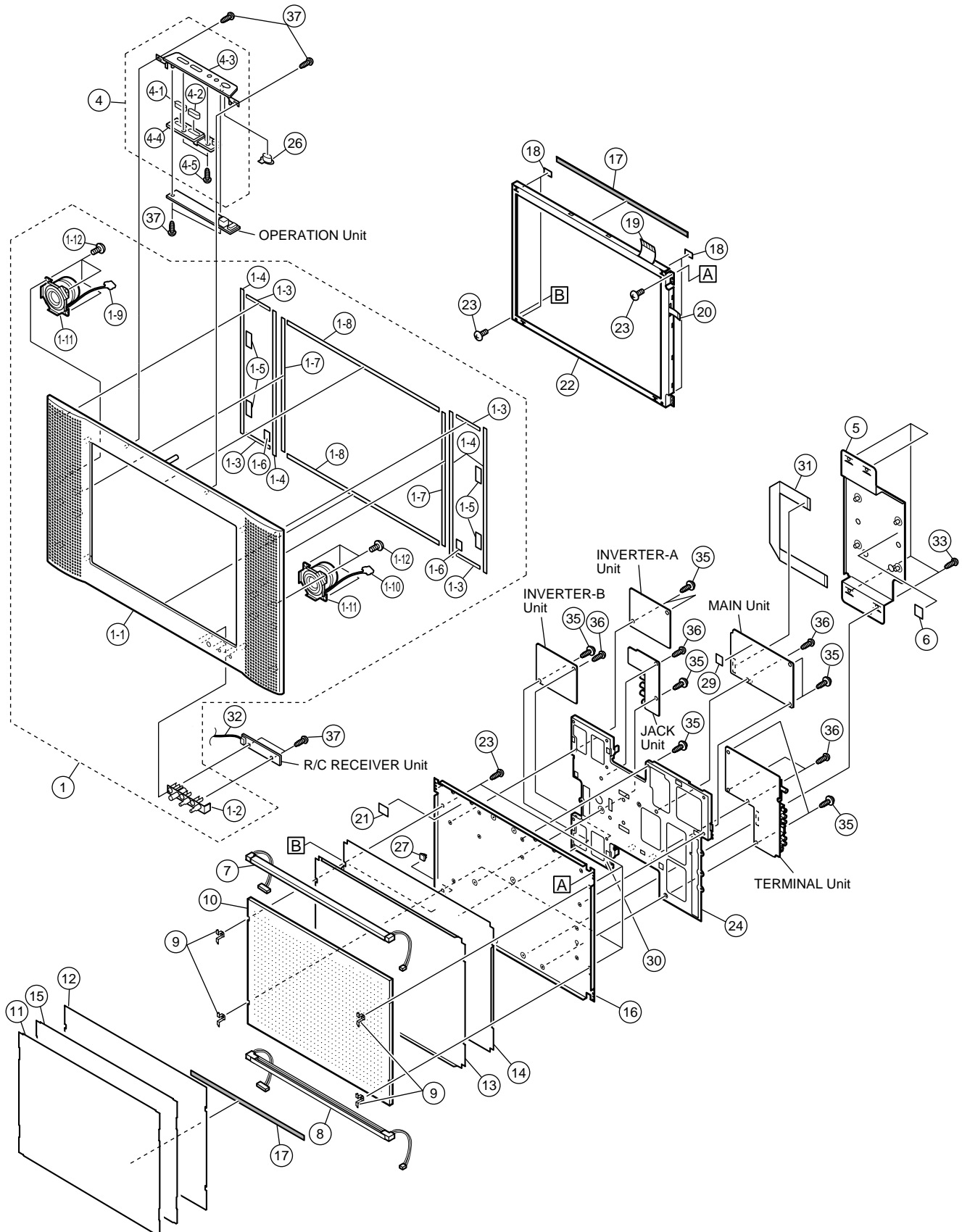
CAPACITORS				
C4018	RC-KZ1025CEZZ	J	1 10V Ceramic	AB

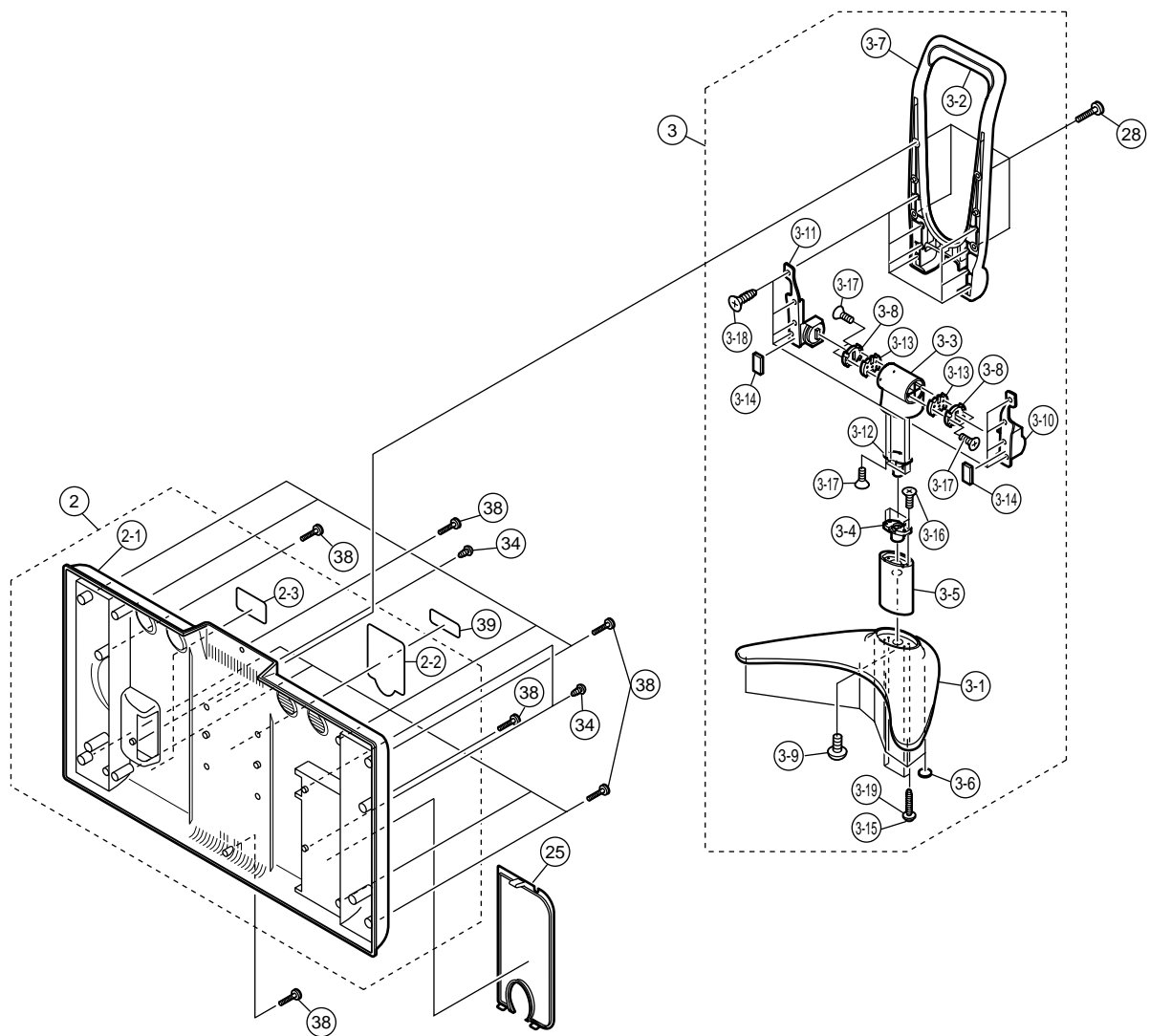
RESISTORS				
R4021	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R4023	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R4029	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R4030	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R4024	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
MISCELLANEOUS PARTS				
P4005	QPLGN0564TAZZ	J	Plug, 5pin	AC
RMC4002	RRMCU0239CEZZ	J	Remote Receiver	AG

CABINET PARTS LIST				
1	CCABA2434CE01	J	Front Cabinet Ass'y (LC-20B2H/M(X))	BK
1	CCABA2450CE01	J	Front Cabinet Ass'y (LC-20B2M)	
1-1	Not Available	-	Front Cabinet	—
1-2	GCOVA2004CEZZ	J	LED Decoration Cover	AE
1-3	PSPAG0393CEUZ	J	Spacer, x4	AB
1-4	PSPAG0394CEUZ	J	Spacer, x4	AC
1-5	PSPAG0395CEUZ	J	Spacer, x4	AB
1-6	PSPAH0678CEZZ	J	Spacer, x2	AA
1-7	PSPAH0699CEUZ	J	Spacer, x2	AD
1-8	PSPAH0700CEUZ	J	Spacer, x2	AD
1-9	QCNW-6019CEZZ	J	Connecting Cord	AB
1-10	QCNW-6020CEZZ	J	Connecting Cord	AB
1-11	VSP0050BPB68S	J	Speaker, x2	AR
1-12	XEBSD40P10000	J	Screw, x8	AA
2	CCABB2321CE02	J	Rear Cabinet Ass'y (LC-20B2H)	
2	CCABB2321CE03	J	Rear Cabinet Ass'y (LC-20B2M)	
2	CCABB2321CE04	J	Rear Cabinet Ass'y (LC-20B2M(X))	
2-1	Not Available	-	Rear Cabinet	—
2-2	HiNDP5881CESA	J	Model Indication Label (LC-20B2H)	
2-2	HiNDP5883CESA	J	Model Indication Label (LC-20B2M)	
2-2	HiNDP5885CESA	J	Model Indication Label (LC-20B2M(X))	
2-3	TCAUH3096CESA	J	Caution Label	AE
3	CDAi-1122CE04	J	Stand	BQ
3-1	Not Available	-	Stand Base	—
3-2	GCOVA1945CESA	J	Handle Cover	AK
3-3	GDAi-1123CESA	J	Stand Joint	AQ
3-4	GDAi-3049CESA	J	Base Joint	AQ
3-5	GDAi-3053CESA	J	Stand	AQ
3-6	GLEGG9093CEZZ	J	Foot, x6	AC
3-7	JHNDP0103CESA	J	Stand Handle	AX
3-8	LANGG0114CEFW	J	Fixing Metal, x2	AE
3-9	LX-BZ3441CEFN	J	Screw, x1	AD
3-10	MHNG-3034CEFW	J	Hinge, Left	AV
3-11	MHNG-3035CEFW	J	Hinge, Right	AV
3-12	MHNG-3036CEFW	J	Hinge, Side	AX
3-13	PSPAT0079CEZZ	J	Spacer, x2	AC
3-14	PSPA0415CEZZ	J	Spacer, x2	AB
3-15	XCBS050P25000	J	Screw, x4	AB
3-16	XCSSN50P25000	J	Screw, x4	AB
3-17	XESSD40P14000	J	Screw, x8	AB
3-18	XESSN40P10000	J	Screw, x8	AB
3-19	XWHSN50-16120	J	Washer, x4	AB
4	CCOVA2057CE01	J	Operation Button Ass'y	
4-1	GCOVA1943CEKA	J	Button Cover	AD
4-2	GCOVA1943CEKB	J	Button Cover	AD
4-3	Not Available	-	Operation Button	—
4-4	JBTN-2072CEKA	J	Operation Button	AE
4-5	XEBSD30P10000	J	Screw, x1	AA
5	LANGT9026CEFW	J	Reinforcement Angle	AR
6	PMLT-0384CEZZ	J	Spacer	AC
7	KLMP-0110CEZZ	J	Fluorescent Lamp (Top)	BA
8	KLMP-0111CEZZ	J	Fluorescent Lamp (Bottom)	BA
9	LANGQ9206CEFW	J	Fixing Metal, x4	AF
10	PGiDM0065CEZZ	J	Lamp Guide Plate	BG
11	PSHEP0216CEZZ	J	Reflection/deflection Sheet	BS

CABINET AND MECHANICAL PARTS





Ref. No.	Part No.	★	Description	Code
CABINET PARTS LIST (Continued)				
12	PSHEP0248CEZZ	J	Diffusion Sheet	AR
13	PSHEP0250CEZZ	J	Reflection Sheet-1	AL
14	PSHEP0251CEZZ	J	Reflection Sheet-2	AL
15	PSHEP0255CEZZ	J	Prism Sheet	BB
16	PSLDM4657CEFW	J	Shielding Plate	AV
17	PSPAK0003CEZZ	J	Sheet Spacer, x2	AG
18	PSPAK0004CEZZ	J	Panel Spacer, x4	AB
19	QCNW-5850CEZZ	J	Source FFC	AF
20	QCNW-5856CEZZ	J	GATE FFC	AE
21	QEARZ0053CEZZ	J	Gascket	AB
22	RLCDT0060CEZZ	J	20" Display Unit	EP
23	XBBSD30P06000	J	Screw, x6	AA
24	GCOVA2055CEKA	J	Chassis Frame	
25	GCOVA2014CEKA	J	Back Cover	AL
26	JBTN-2066CEKA	J	Power Button	AD
27	LHLDW1025TAZZ	J	Wire Holder, x1	AB
28	LX-BZ3442CEFF	J	Screw, x4	AB
29	PSHEG0031CEZZ	J	Sheet	AD
30	PSPAH0261CE00	J	Spacer	AA
31	QCNW-5855CEZZ	J	Connecting Cord	AL
32	QCNW-5974CEZZ	J	Connecting Cord	AG
33	XBBSD40P06000	J	Screw, x4	AA
34	XBBSF30P06000	J	Screw, x3	AA
35	XBPSD30P10JS0	J	Screw, x9	AA
36	XEBSD30P06000	J	Screw, x5	AA
37	XEBSD30P10000	J	Screw, x6	AA
38	XEBSF40P16000	J	Screw, x12	AA
39	TLABN0394CEZZ	J	Serial No. Label (LC-20B2H)	
39	TLABN0396CEZZ	J	Serial No. Label (LC-20B2M)	
39	TLABN0398CEZZ	J	Serial No. Label (LC-20B2M(X))	

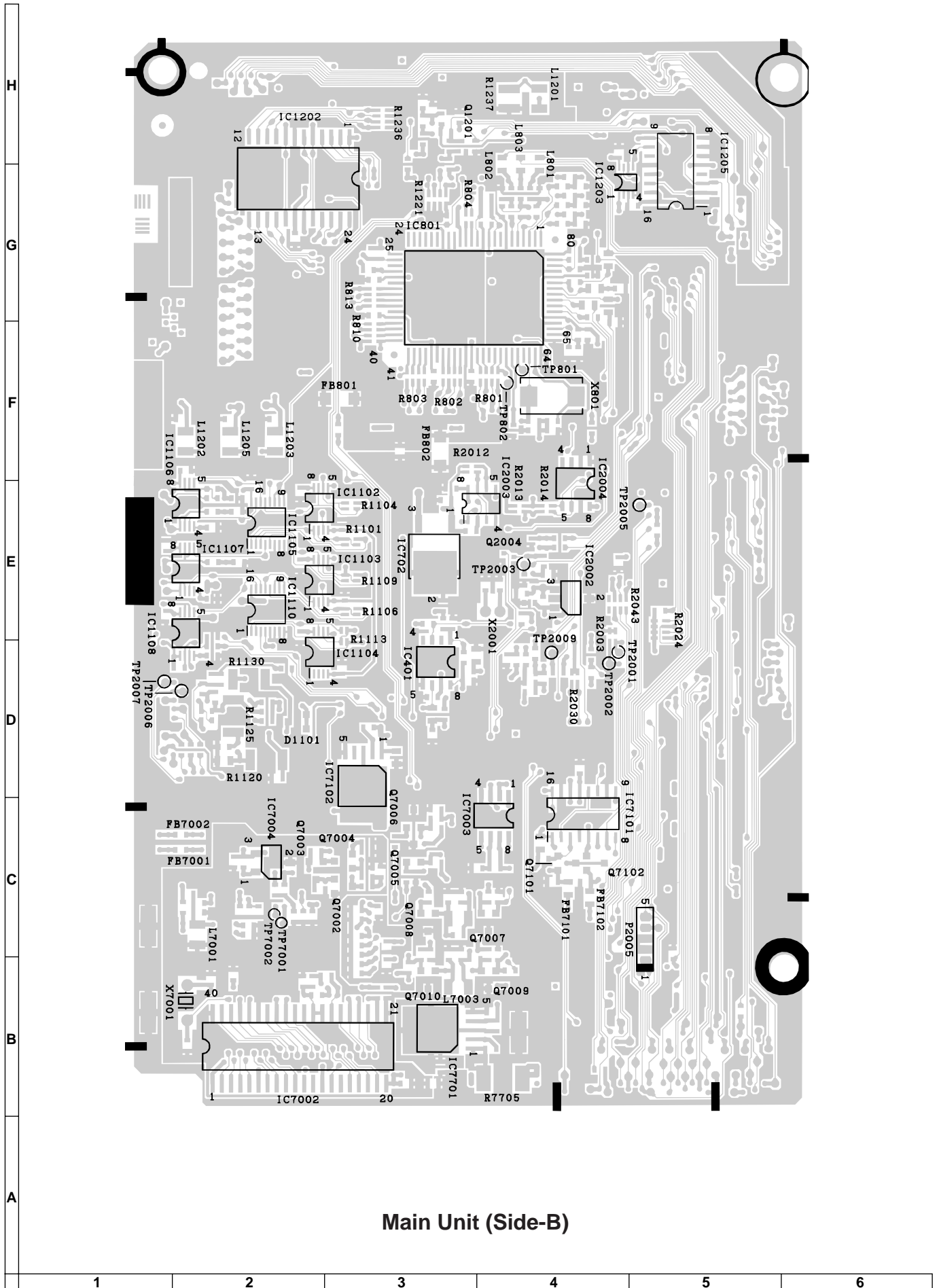
Ref. No.	Part No.	★	Description	Code
SUPPLIED ACCESSORIES				
	LHLDW0109CESA	J	Cabel Clamp	AD
⚠	QACCB0016TAZZ	J	AC Cord (LC-20B2H)	AV
⚠	QACCK0002TAZZ	J	AC Cord (LC-20B2M)	AM
⚠	QACCL0020TAZZ	J	AC Cord (LC-20B2M(X))	AP
	TiNS-7507CEZZ	J	Opearation Manual (LC-20B2H)	
	TiNS-7508CEZZ	J	Opearation Manual (LC-20B2M)	
	RRMCG1663CESA	J	Infrared Remote Control Unit	AV
⚠	UADP-0219CEZZ	J	AC Adaptor(LC-20B2H/M)	BU
⚠	UADP-0218CEZZ	J	AC Adaptor(LC-20B2M(X))	BU
	SSAKA0160CEZZ	J	Operation Manual Polyethylene Bag	AB

PACKING PARTS (NOT REPLACEMENT ITEM)

SPAKC5617CEZZ	- Packing Case (LC-20B2H)	—
SPAKC5619CEZZ	- Packing Case (LC-20B2M)	—
SPAKC5617CEZZ	- Packing Case (LC-20B2M(X))	—
SPAKH0150CEZZ	- Protection Sheet	—
SPAKP0912CEZZ	- Wrapping Paper	—
SPAKX2943CEZZ	- Buffer Material	—
SSAKH0176CEZZ	- Protection Bag	—
TLABK0001TAZZ	- No. Label	—

Inverter-B Unit (Component Side)



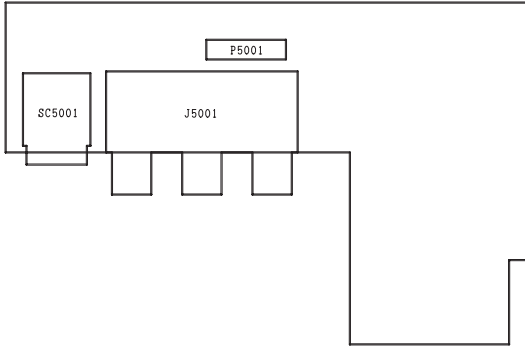




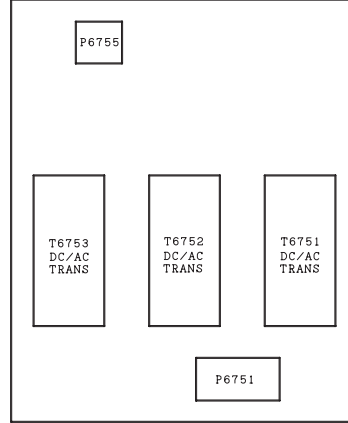
R/C RECEIVER Unit



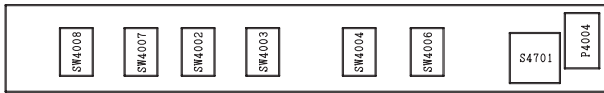
JACK Unit



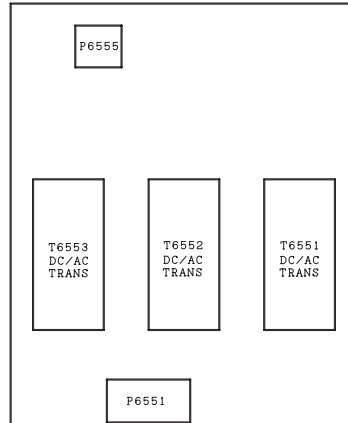
INVERTER-A Unit



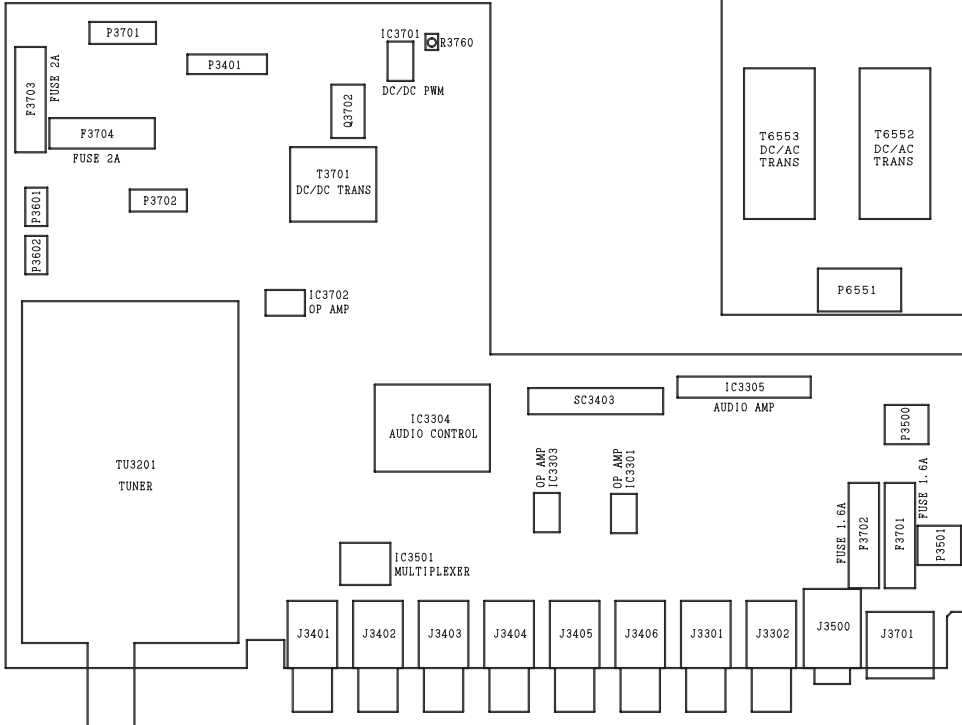
OPERATION Unit



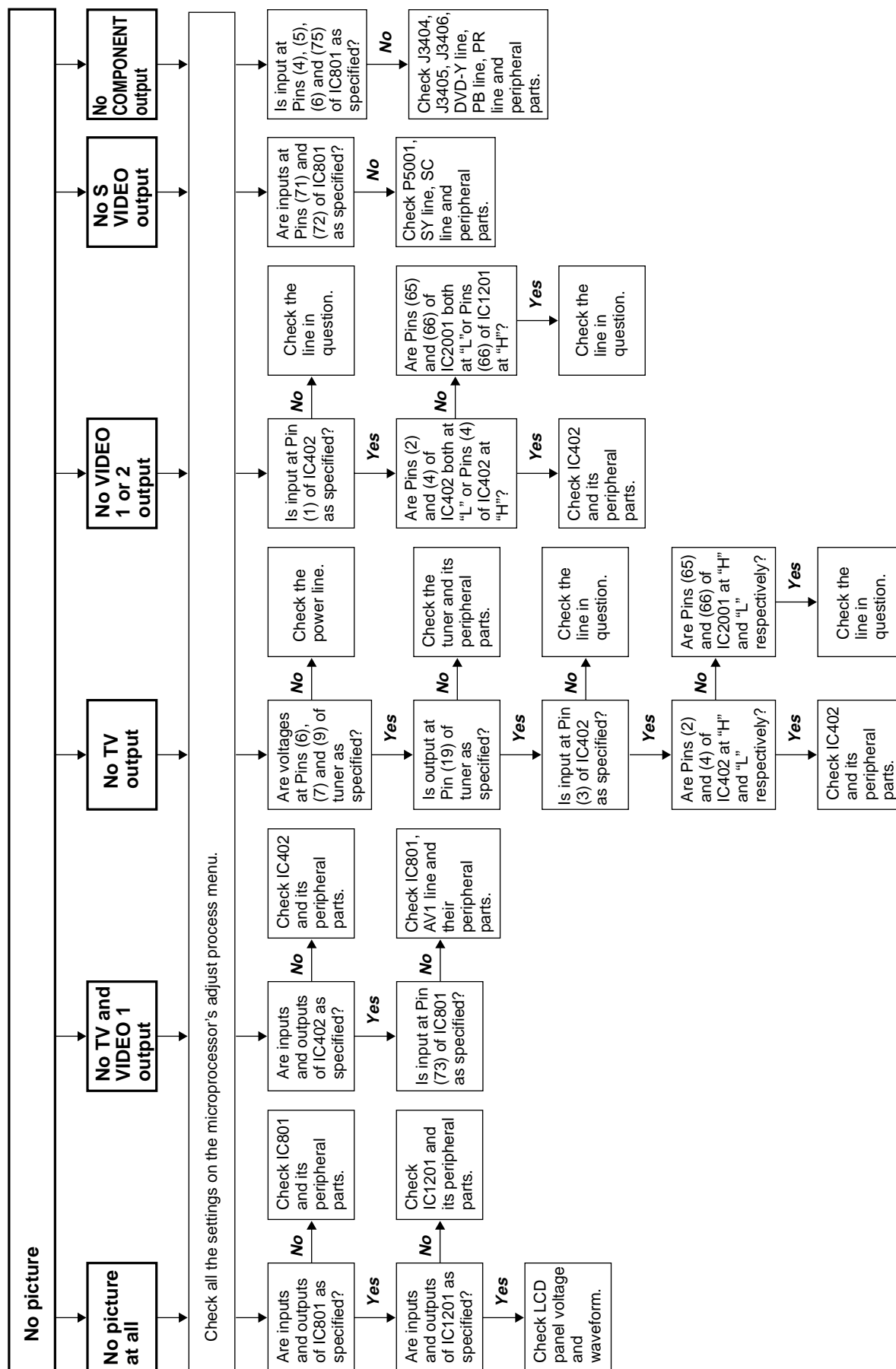
INVERTER-B Unit



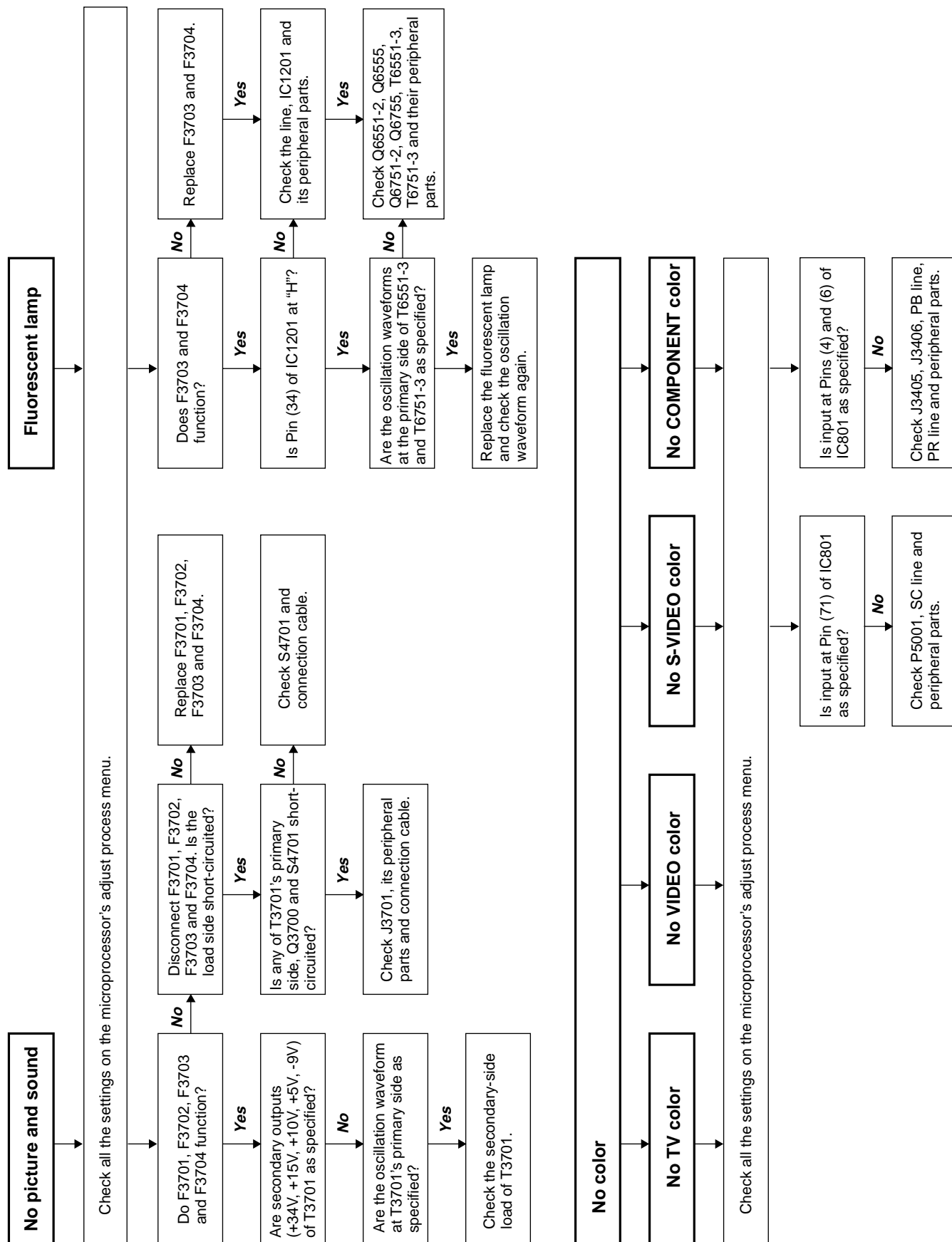
TERMINAL Unit



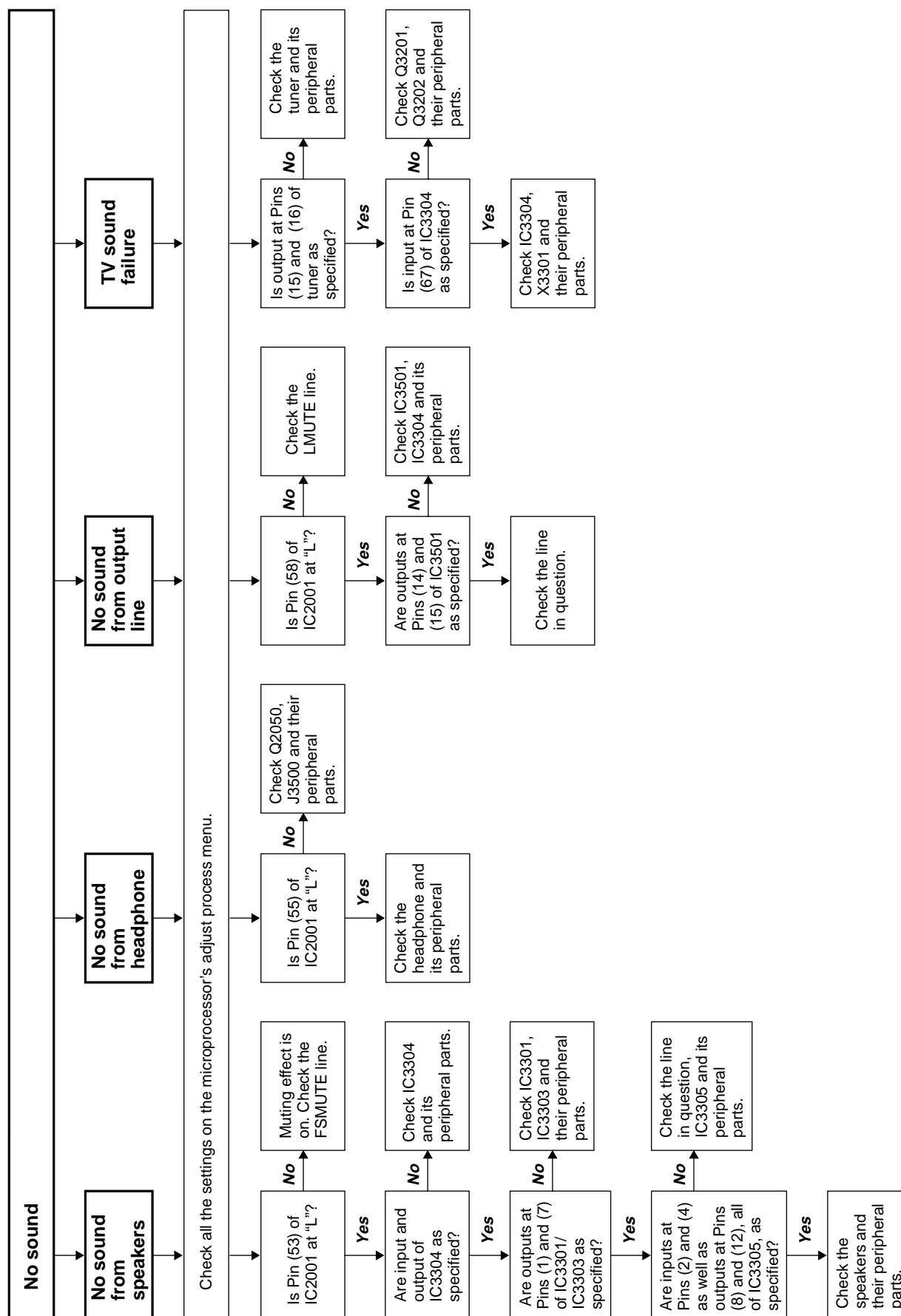
TROUBLE SHOOTING TABLE (Continued)



TROUBLE SHOOTING TABLE (Continued)



TROUBLE SHOOTING TABLE (Continued)



adjust to nearly the same setting as above.

5-3. TAMP adjustment

1) Feed the color bar pattern signal.

2) See if the "Y" reading on adjustment process page 2 is within the range shown below. If not, adjust the "NTSC

Model	LC20B2
Adjustment value	BB ~ CA

TAMP" setting to bring the "Y" reading within the specified range.

3) If the "NTSC TAMP" setting has been readjusted, write down its new setting in the "PAL TAMP", "SECAM TAMP", "PAL-M TAMP" and "PAL-N TAMP" items manually.
(Page 2 of adjustment process OSD)

	0	1	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2						
											0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6					
0		2																														
1		►	C	O	M		B	I	A	S														1	0	6						
2			N	T	S	C		T	A	M	P														2	1						
3			P	A	L		T	A	M	P																2	1					
4			S	E	C	A	M		T	A	M	P															2	1				
5			P	A	L	-	M		T	A	M	P																2	1			
6			P	A	L	-	N		T	A	M	P																	2	1		
7			R	C	U	T	O	F	F																				-	5		
8			G	C	U	T	O	F	F																					0		
9			B	C	U	T	O	F	F																					+	3	
10			G	3			B	3		R	3					0	0			0	0								0	0		
11			G	1			B	4		Y						0	0			0	0								9	0		
12			T	A	M	P		H																							C	A
13			T	A	M	P		L																							B	B

Y data
75% White

5-4. White balance adjustment

1) Feed the monoscope pattern signal.

2) Adjust the "RCUTOFF" and "BCUTOFF" settings on adjustment process page 2 to achieve the color at the same level as with the standard set.

Note: Keep the "RCUTOFF" and "BCUTOFF" settings as an odd number, whenever possible, in the range below.

••• -9, -7, ••• -1, +1, ••• +7, +9 •••

If set to an even number, horizontal streaks may occur with a specific-gradation monochrome signal.

[6] Lamp error detection

6-1. Functional description

This LCD colour television has a function (lamp error detection) to be turned OFF automatically for safety when the lamp or lamp circuit is abnormal.

If the lamp or lamp circuit is abnormal, or some other errors happen, and the lamp error detection is executed, the followings occur.

- ① The main unit of television is turned OFF 5 seconds after it is turned ON. (The power LED on the front side of TV turns from green to red.)
- ② If the situation ① happens 5 times sequentially, television can not be turned ON. (The power LED remains red.)

6-2. Countermeasures

6-2-1. Check when turning OFF the lamp error detection

When television is turned OFF by the lamp error detection mentioned above, it enters the adjustment process with the power LED red. Entering the adjustment process turns OFF the error detection and turns ON TV.

This enables the operation check to detect errors in the lamp or lamp circuit.

Check whether "ERROR NO RESET" on line 9, page 1 of the adjustment process is 1 or more. If it is 1 or more, it indicates the lamp error detection was executed.

6-2-2. Resetting of the lamp error count

After confirming that the lamp or lamp circuit is normal, reset the lamp error count. Select "ERROR NO RESET" on line 9, page 1 of the adjustment process and set the number to 0 using the volume button.

Page 1 of the adjustment process

1

+ B – A D J

MODEL

I N C H I S I Z E

N T S C P W M F R E Q

P A L P W M F R E Q

N T S C P W M D U T Y

P A L P W M D U T Y

T V G A I N

E R R O R N O R E S E T

H O T E L M O D E

160

B2H

20

0C0

0BD

0

0

OFF

5

ON

B 2 H V E R 1 . 0 0

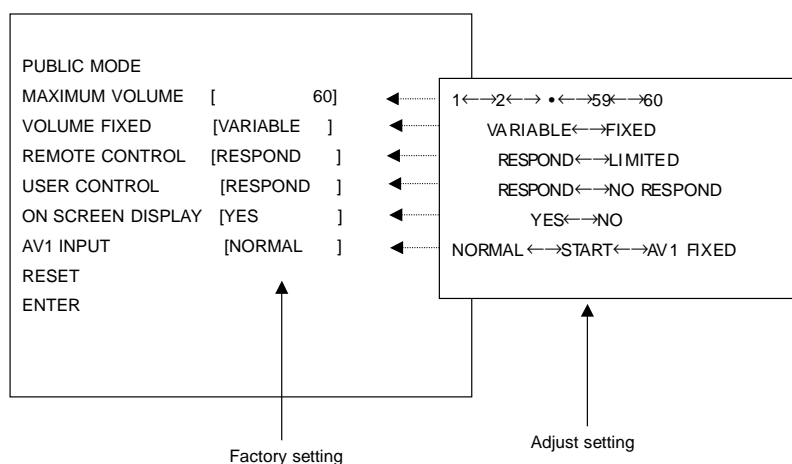
Reset 0

Afterwards, perform the operation check to confirm that the lamp error detection does not function.

[7]. Hotel mode (PUBLIC MODE)

- How to enter into PUBLIC MODE
 1. Turn off TV by pressing MAIN POWER switch.
 2. While pressing at same time VOL(+) key and CH(▲)key, press MAIN POWER switch for more than 2 seconds. TV will turn on, and you will see the screen display a setting of PUBLIC MODE.

• Setting screen of "PUBLIC MODE"

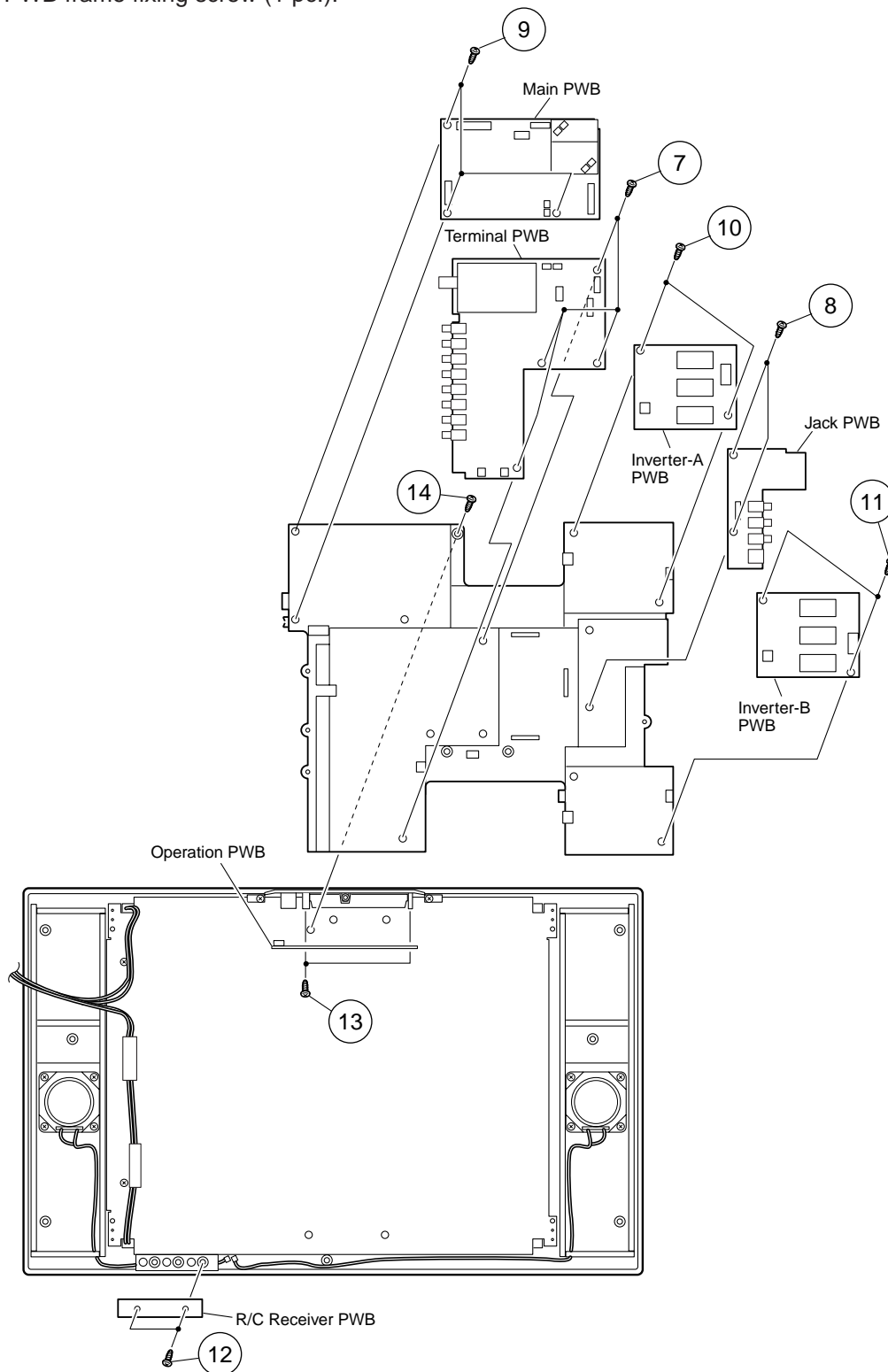


1. You can select each item of functions by pressing cursor UP/DOWN keys on the remote control or CH▲/▼ keys on the LCD TV. The letter of selected item turns to yellow colour when you selected it.
2. The setting position of each item of functions are made by pressing cursor RIGHT/LEFT keys on the remote control or VOL (+)(-)keys on the LCD TV.
3. Select ENTER position after you set all functions, and press cursor RIGHT/LEFT keys on the remote control or VOL(+)(-)keys on the LCD TV for confirmation.
Unless otherwise you make ENTER confirmation, the settings will not be memorized.

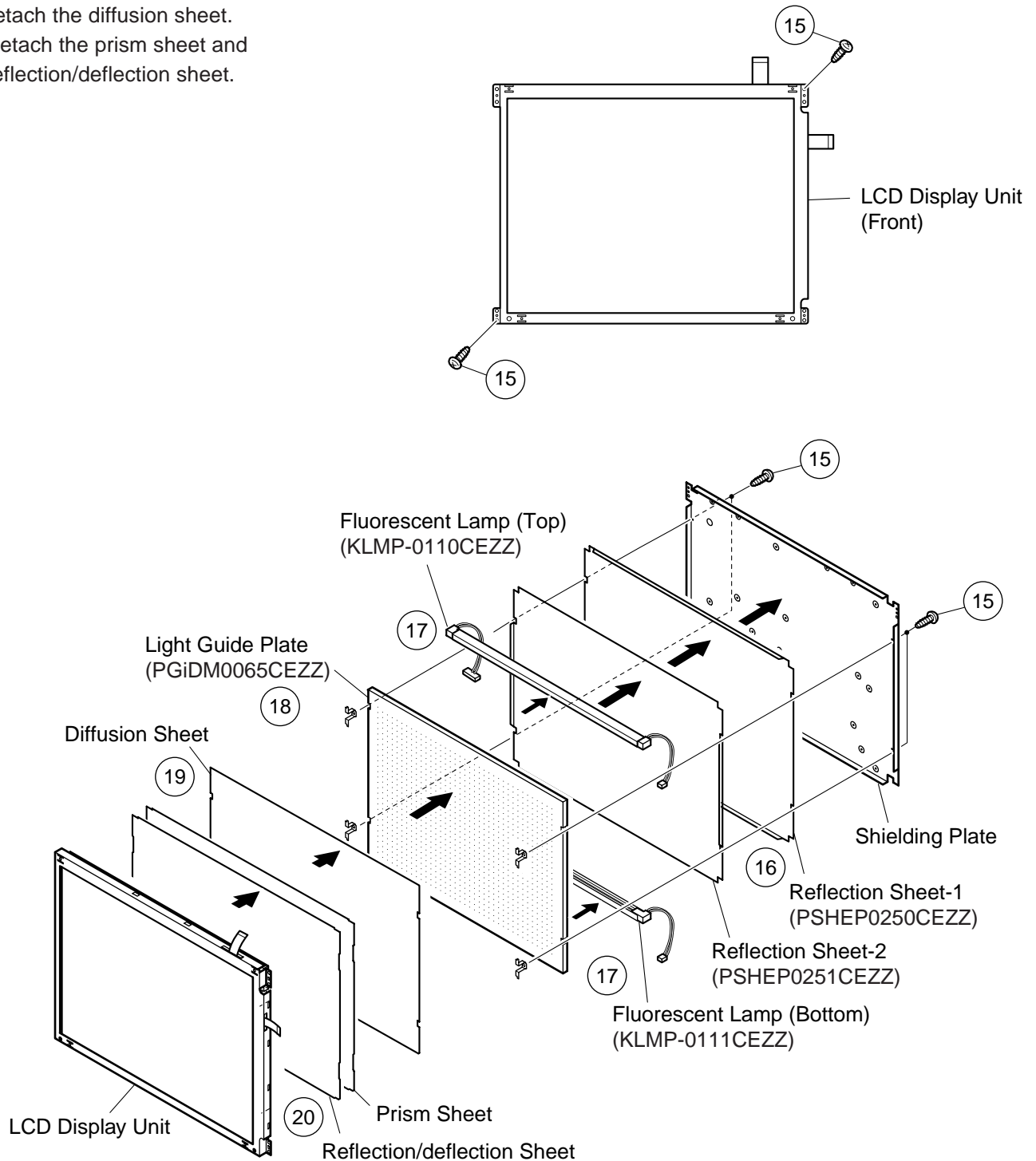
6-functions of Public Mode settings expand for public application

1. MAXIMUM VOLUME (1———60)
You can set the maximum volume at your desire level.
2. VOLUME FIXED (VARIABLE / FIXED)
You can fix the sound volume at your desire level.
When you set to "FIXED", the sound volume which you just set is fixed.
3. REMOTE CONTROL (RESPOND / LIMITED)
If you set "LIMITED", remote control keys of POWER, CH▲/▼, VOL(-)/(+) and BRIGHT keys are responded, but other keys are not responded.
This is a position that you can not make MENU adjustments.
4. USER CONTROL (RESPOND / NO RESPOND)
"NO RESPOND" means that the TV does not respond when you press a user control buttons except main power button on the main unit.
5. ON SCREEN DISPLAY (YES / NO)
If you set "NO" position, OSD will not appear.
6. AV1 INPUT (NORMAL / START / AV1 FIXED)
Some application use DVD or VCR connecting to AV1 input of our monitor and you will not want to change it to other mode, such as Component or AV2 input.
You can set the position of input "AV1 FIXED"
For other application that you want to start AV1 every time when you press power button, and you may select other input mode after then, set it at "START" position.
7. RESET
You can cancel all Public Mode settings. (It returns to the factory setting.)
8. ENTER
You make sure after you have specified all functions, then press the enter key. Unless otherwise you press the enter key, all positions that you have selected will not be set.

7. Remove the terminal PWB fixing screws (4 pcs.).
8. Remove the jack PWB fixing screws (2 pcs.).
9. Remove the main PWB fixing screws (3 pcs.).
10. Remove the inverter-A PWB fixing screws (2 pcs.).
11. Remove the inverter-B PWB fixing screws (2 pcs.).
12. Remove the R/C receiver PWB fixing screws (2 pcs.).
13. Remove the operation PWB fixing screws (2 pcs.).
14. Remove the PWB frame fixing screw (1 pc.).

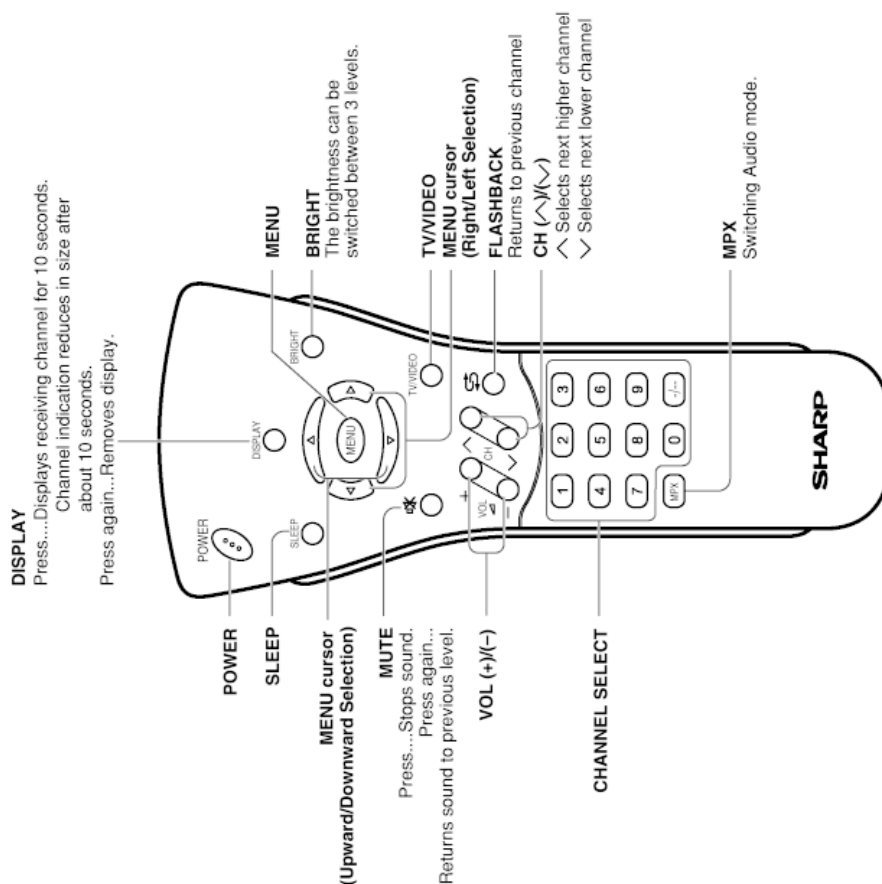


- Precautions in handling the LCD panels
 1. Work in a clean room (with humidities below 50%).
 2. Be sure to wear an anti-static armband.
 3. Handle the panels on an electroconductive mat.
 4. Be careful not to fall, shake and shock the panels.
15. Remove the two lock screws from the front of the LCD display unit and the four lock screws from its back. Detach the shielding plate.
 16. Detach the two reflection sheets.
 17. Detach the top and bottom fluorescent lamps.
 18. Remove the light guide plate.
 19. Detach the diffusion sheet.
 20. Detach the prism sheet and reflection/deflection sheet.



LOCATION OF USERS CONTROL (Continued)

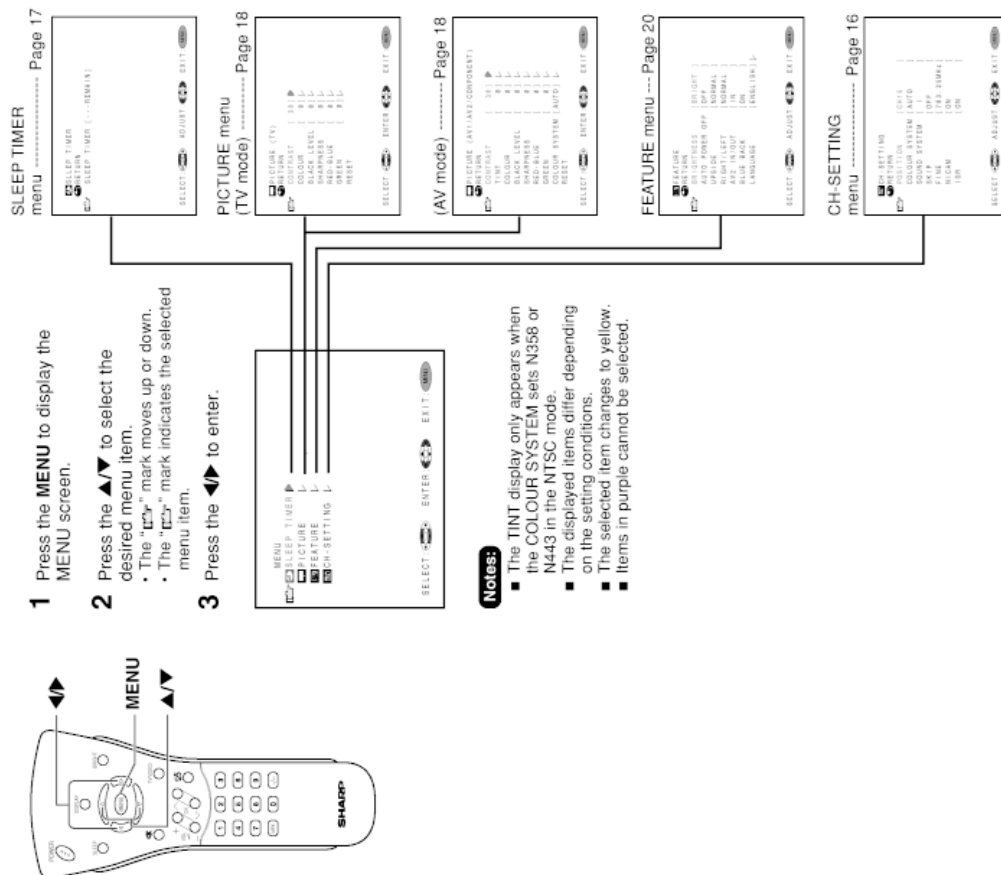
Remote control



SELECTING THE MENU ITEMS

Selecting a Menu Item

- This LCD TV set allows you to adjust the picture and sound, and set the channels and other features using the On Screen Display. Select the desired menu item by following the steps below and then refer to the indicated page for details.



* The screen indications shown above are larger than actual for easy reading.

CONNECTING WITH EXTERNAL DEVICES

You can enjoy picture and sound by connecting a VCR or a home video game system to the terminals located on the rear of the TV set. When connecting an external device, turn off the power of the main unit first to prevent any possible damage.

Example of external devices that can be connected

- Video camera
- Home video game system
- VCR
- Laser disc player



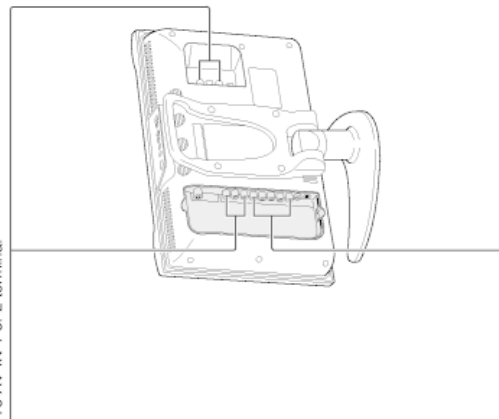
- PC connection is not possible.
- If your external device has an S-Video terminal, S-VIDEO connection is recommended.

- DVD, etc.



- If your external device has a component terminal, COMPONENT connection is recommended (you can view high-quality pictures). If your external device does not have a component terminal, S-VIDEO connection is recommended.

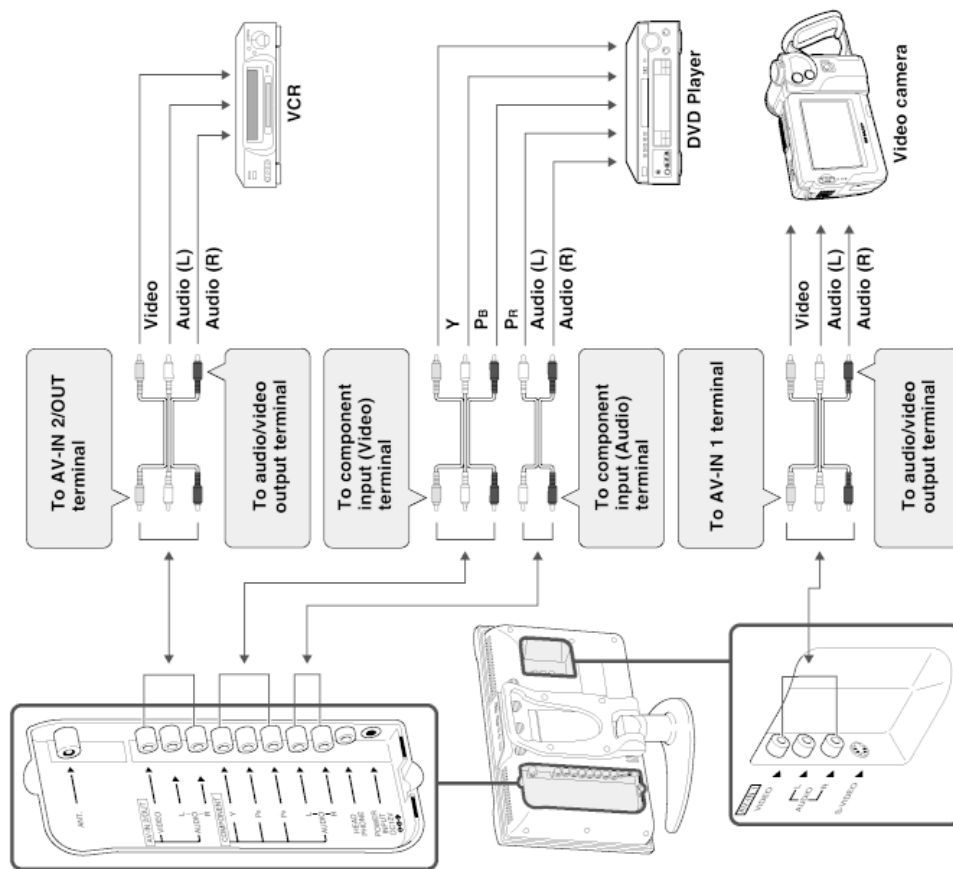
To AV-IN 1 or 2 terminal



To COMPONENT terminal

CONNECTING WITH EXTERNAL DEVICES (Continued)

Connecting a VCR, DVD player or a video camera (AV-IN 1/2/COMPONENT)



Notes:

- If your VCR (or other external devices) has an S-Video terminal, S-VIDEO connection is recommended. (Use an S-video cord.)
- When you connect external devices to both S-VIDEO and VIDEO terminals (and if you select AV-IN 1), you can only view pictures from the S-VIDEO terminal.
- You cannot view multiple or synthesized pictures by connecting two or more external devices. When connecting an external device, use care to connect the video and audio cables to the corresponding terminals.
- Do not connect antennas or headphones to AV-IN 2/OUT.

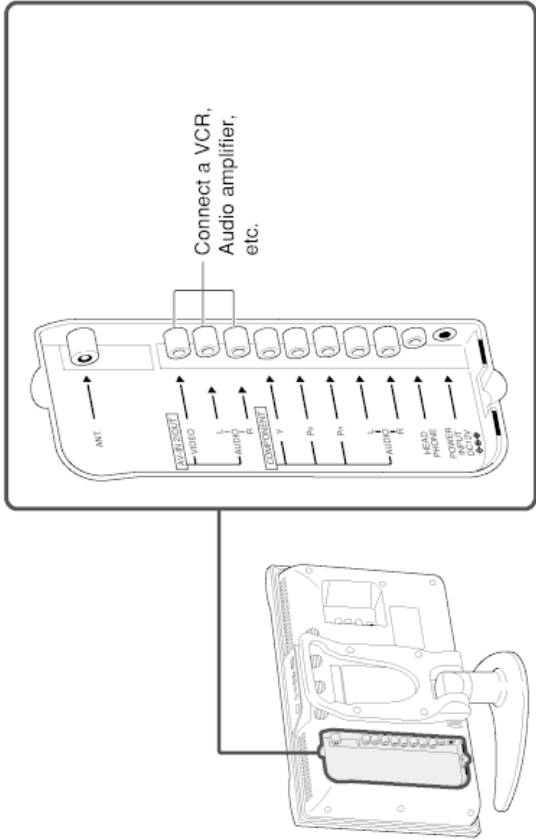
Notes:

- For the cable, use a commercially available audio/video cord.
- Only connect audio/video signals to AV-IN 1 and 2 terminals. Connecting other signals may result in a malfunction.
- AV-IN 1 has 2 video input terminals: VIDEO and S-VIDEO. When you connect external devices to both terminals (and if you select AV-IN 1), you can only view pictures from the S-VIDEO terminal. To view the picture from the VIDEO terminal, do not connect any external devices to the S-VIDEO terminal.
- For more information about external device connections, see the manuals of your external devices.

CONNECTING WITH EXTERNAL DEVICES (Continued)

Outputting video and audio (video output)

You can output video and audio data from the TV set through the AV output terminals (AV-OUT).

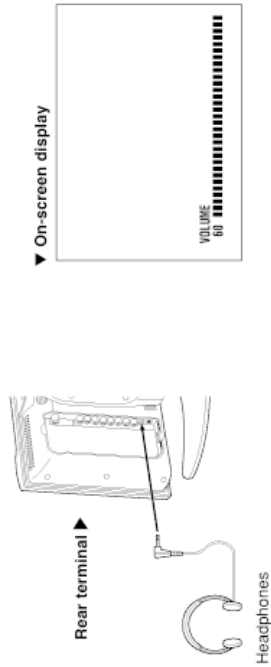


Notes:

- AV2 has 2 OUT modes (see page 21).
- When using the S-Video input for AV-IN 1, no video output will be made to the AV output terminal, but audio output will be made for connection to external audio systems.
- When using the COMPONENT input, no video output will be made to the AV output terminal, but audio output will be made for connection to external audio systems.

Listening with Headphones

- Plug the headphone mini-plug into the HEADPHONE jack located on the rear of the TV set.

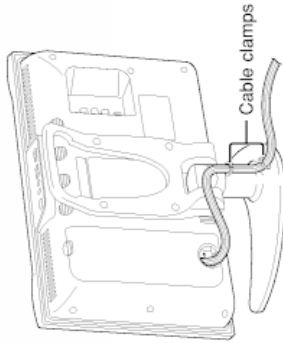


Notes:

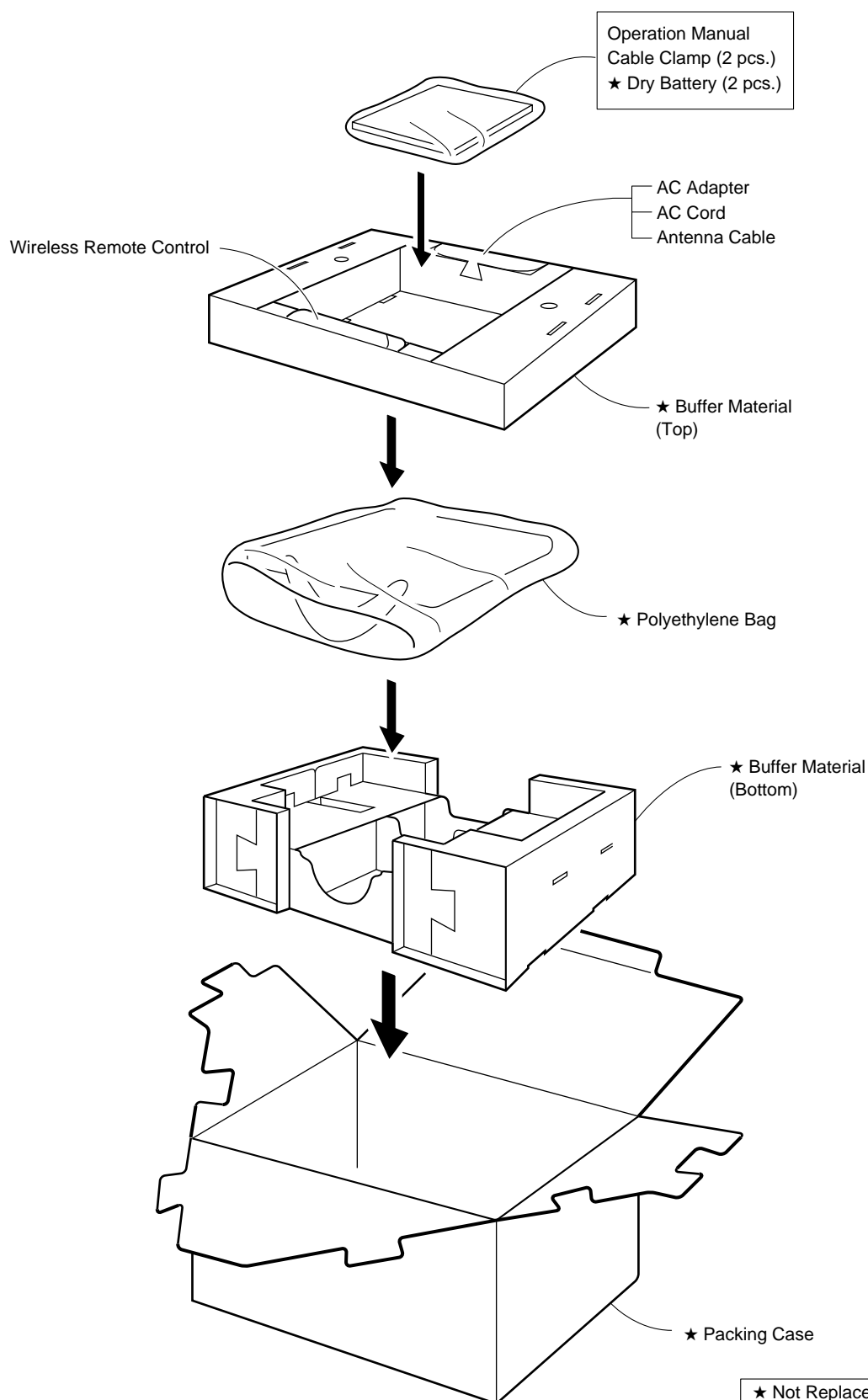
- Headphones are not included in the supplied accessories.
- No sound will be heard from the main unit speakers when a headphone mini-plug is connected into the HEADPHONE jack.

How to fix the cables

- Fix cables and cords with the attached cable clamps so that they do not get caught when mounting the cover.
- Connect the cables and cords after fixing the cable clamps (2 positions).



PACKING OF THE SET



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